# The Builder

A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6157 119TH YEAR. FRIDAY, MAY 19, 1961. Price 1/6



*Youngman*

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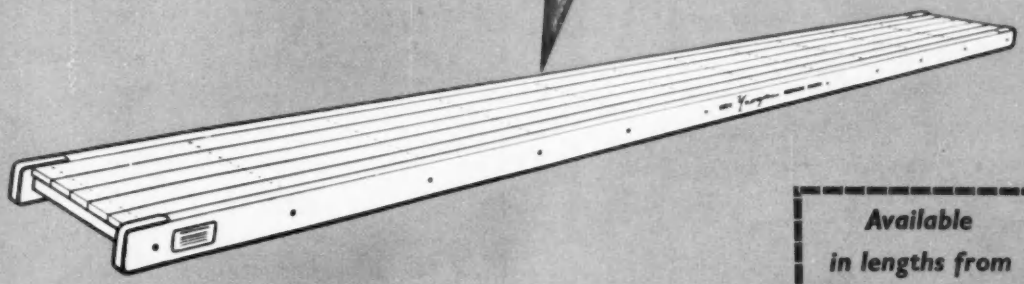
Spans its full length without intermediate support



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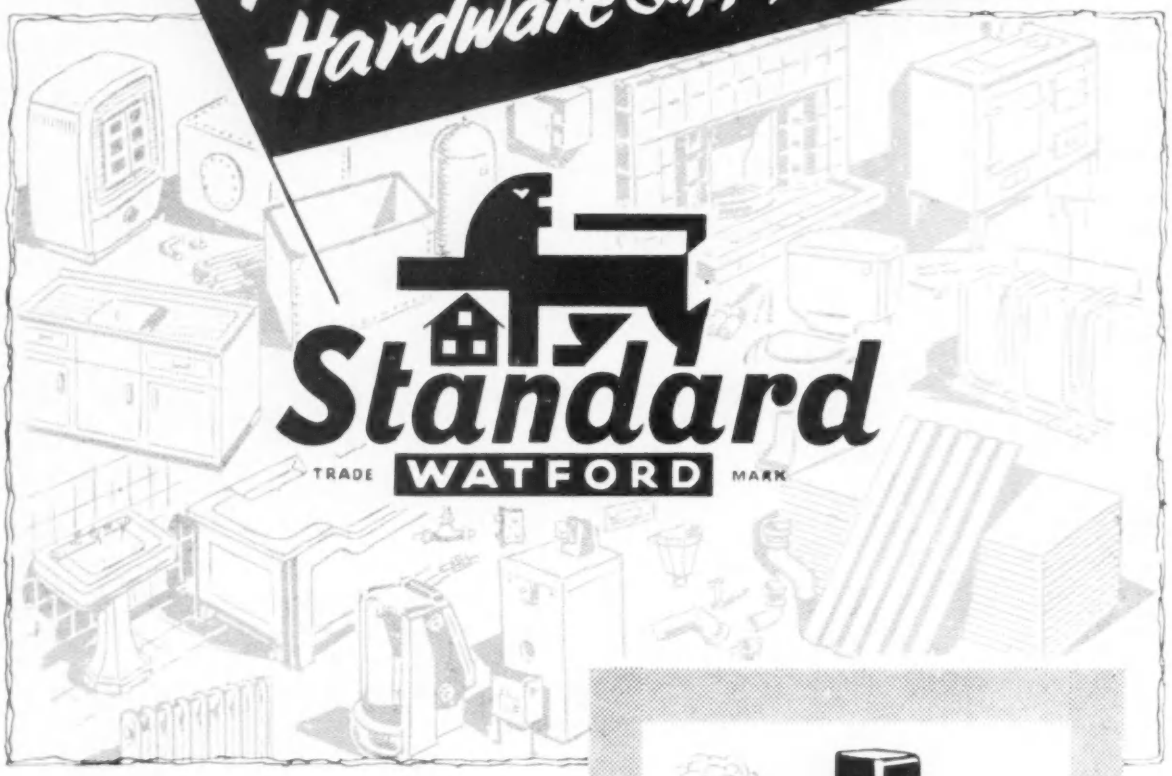

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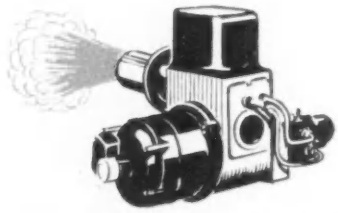

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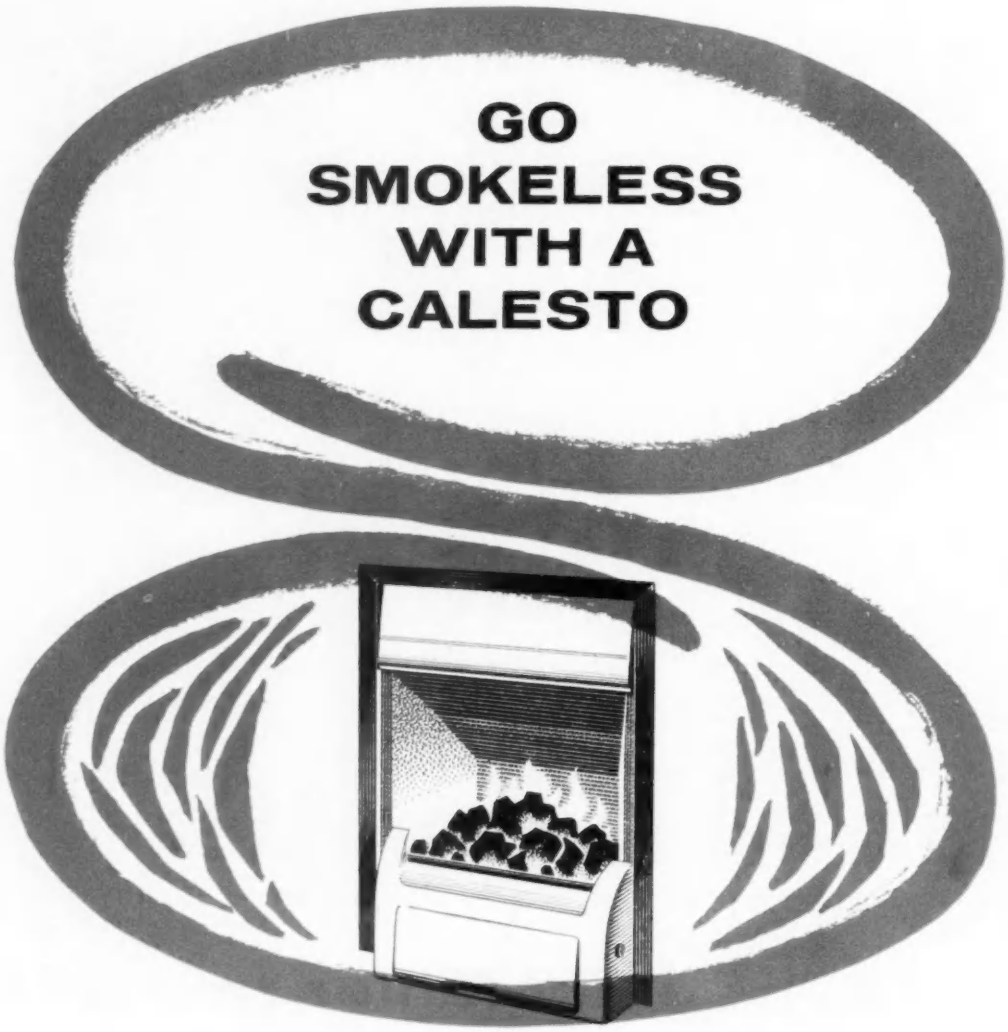
H-W.198

# GO SMOKELESS WITH A CALESTO



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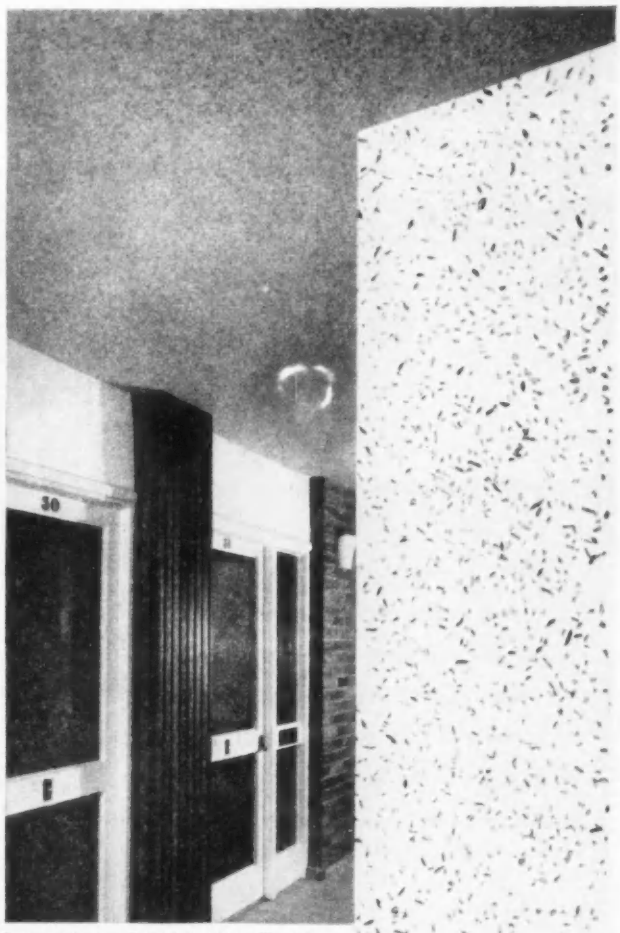

Lowood Court, Dulwich, where Tretol Multicolour was used on staircases and lift areas. Part of Wates Dulwich redevelopment project. Designed by Austin, Vernon & Partners.

# Luxury Finish On Fair-Faced Concrete

For a luxury finish, costing little more than conventional paints, Wates used **Tretol Multicolour.** Its vibrant colour texture is obtained by spraying two or more colours in one operation, giving a finish impossible to achieve with monochrome materials. In this instance, Multicolour was **sprayed direct to unplastered concrete** resulting in a considerable saving in costs. The tough hard wearing Multicolour finish can be applied to almost any surface and will have **an effective life several times greater** than other decorative schemes. **Tretol Multicolour** can also be used to transform the interiors of older buildings and give them a new lease of colourful life. Send now for technical data and colour pattern card

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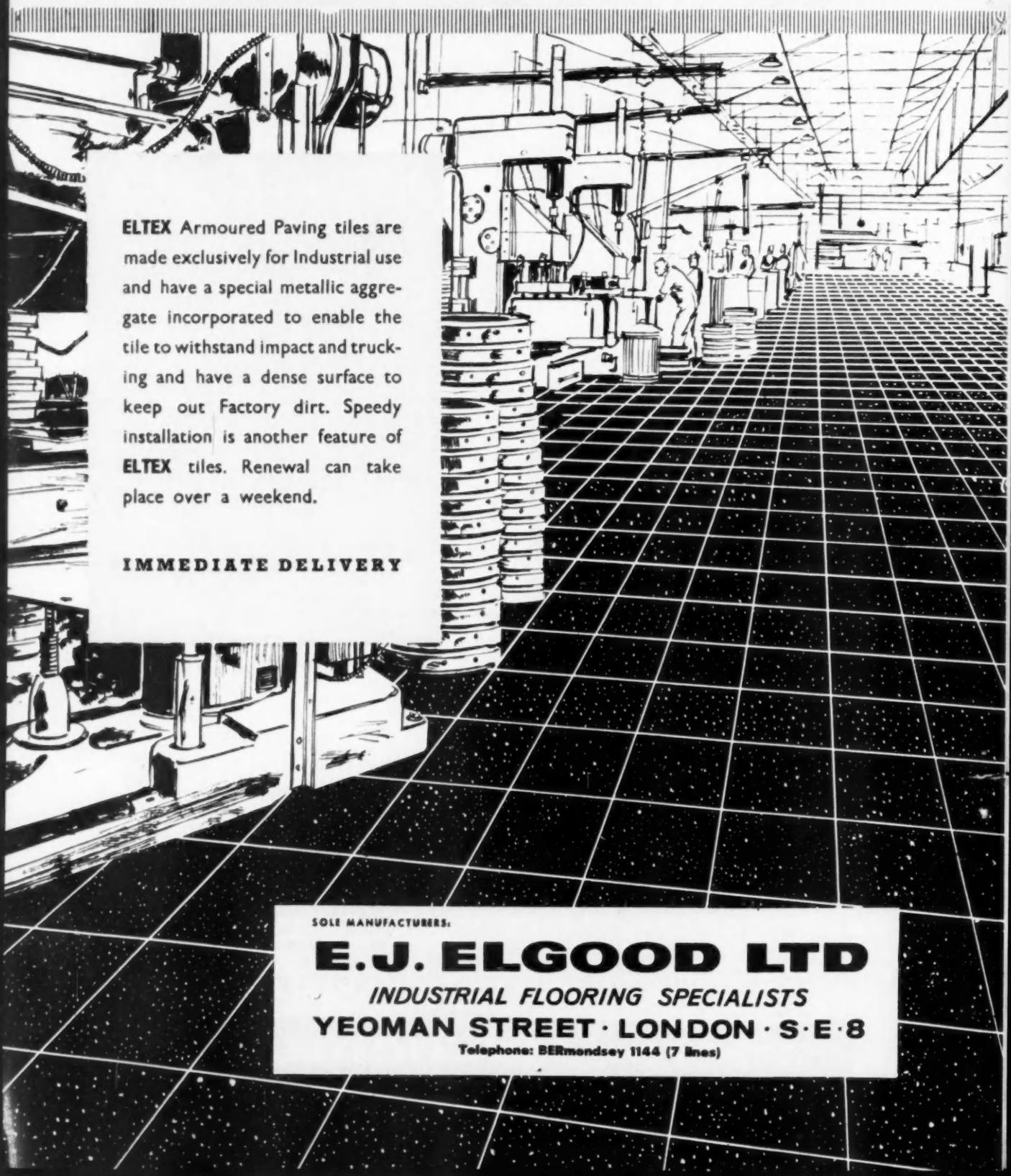
# ELTEX ARMOURED PAVING TILES



**ELTEX** Armoured Paving tiles are made exclusively for Industrial use and have a special metallic aggregate incorporated to enable the tile to withstand impact and trucking and have a dense surface to keep out Factory dirt. Speedy installation is another feature of **ELTEX** tiles. Renewal can take place over a weekend.

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# 345 FT TESTED

Extract from a report prepared by:
Mr. G. C. Wilson for R. H. Harry Stanger, Testing Consultants, The Laboratories, Summerfield House, Barnet Lane, Elstree, Herts.
5th October 1960
Report of permeability test carried out with Febproof Integral Liquid Waterproofing Compound in a Mortar Mix.

| | Febproof Treated | Control Untreated |
|---|---|---|
| Mix:— | | |
| Sand, Parts by Volume | 3 | 3 |
| Portland Cement by Volume | 1 | 1 |
| "Febproof," Pints per cwt. Cement | 1 | Nil |
| Water/Cement Ratio | 0·47 | 0·53 |
| Slump Inches | 1½" | 1½" |

PERMEABILITY TEST RESULT ON MORTAR TREATED WITH FEBPROOF

| Water Pressure | | Water Pressure Held For | Amount of Water Percolation |
|---|---|---|---|
| Feet Head | Lbs. per sq. in. | | |
| 46 | 20 | 1 HOUR | NIL |
| 69 | 30 | 1 " | NIL |
| 92 | 40 | 1 " | NIL |
| 115 | 50 | 1 " | NIL |
| 172 | 75 | 1 " | NIL |
| 230 | 100 | 1 " | NIL |
| 287 | 125 | 1 " | NIL |
| 345 | 150 | 1 " | NIL |

The thickness of the 1-3 cement, sand mortar slabs, was 2", and age at date of test 28 days. Water percolated through all untreated control specimens. **No** water percolated through Febproof treated specimens. SEE TEST RESULT ABOVE.
*Signed by G. C. Wilson for R. H. Harry Stanger.*

**With a sustained water pressure of 150 lbs. p.s.i. equalling 345 ft. head of water, this independent Test Report illustrates the remarkable waterproofing efficiency of Febproof Integral Liquid Waterproofer**

**Few, if any, cement waterproofing compounds can match this performance result, and few, if any, are as cheap to use. Only one pint of FEBPROOF is required per cwt. of cement to make concrete and cement renderings completely impervious. In addition FEBPROOF greatly improves plasticity and workability and considerably increases compressive strength.**

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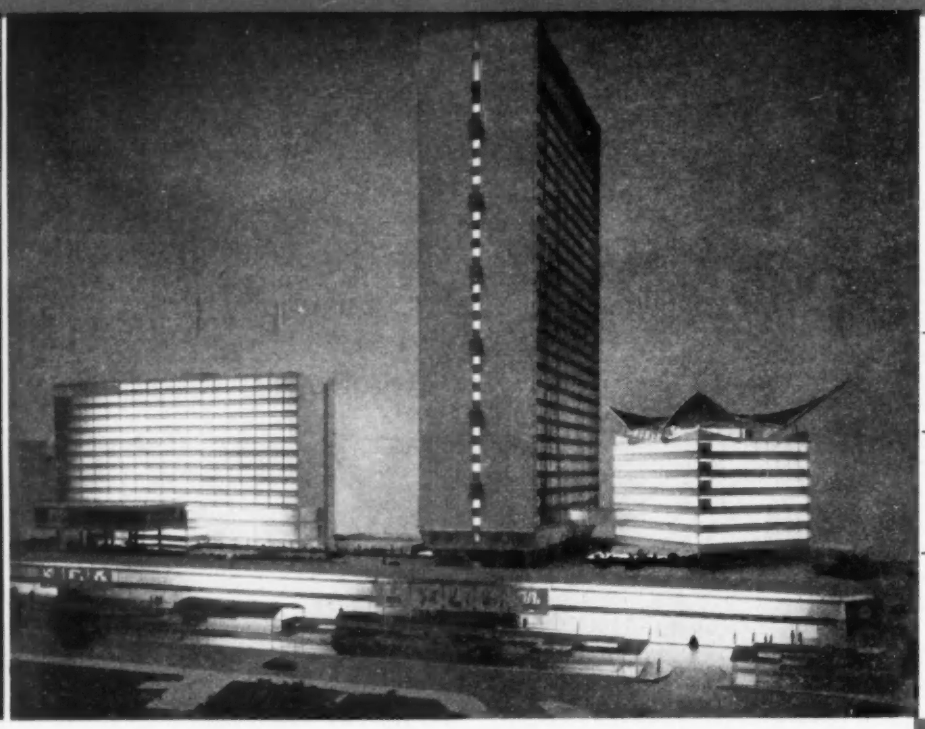

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**Consulting Engineers:** Leonard & Grant.

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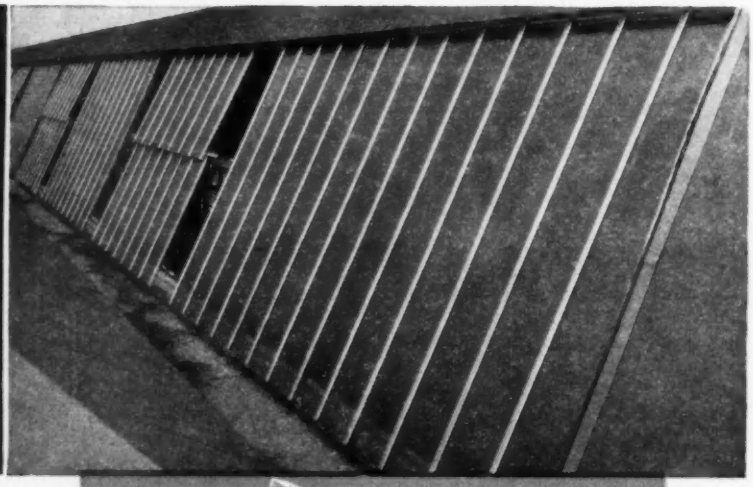
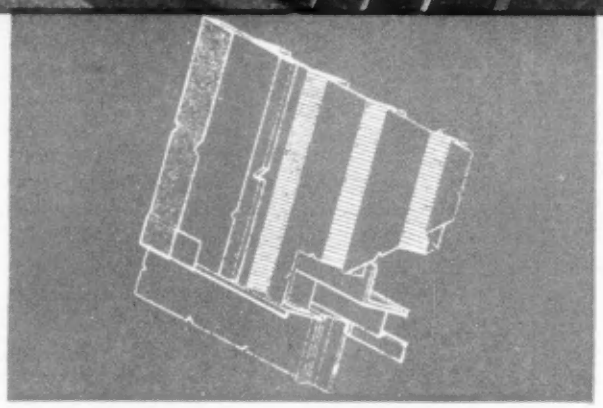
# how BRIGGS solved this roofing problem

At this detail above opening North light glazing, it was necessary to provide a weather trim to the movable glazing frame incorporated in the aluminium section, which normally closes off the decking at this point.

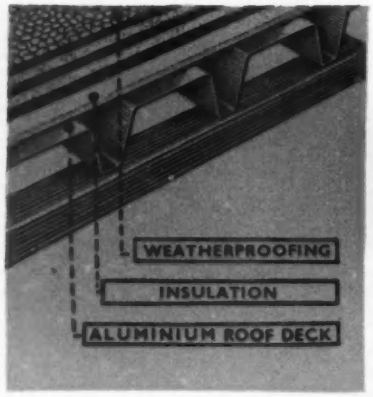
Accuracy was essential to give a site clearance of 3/16" over many hundreds of feet and was achieved by fabricating a special aluminium closure consisting of three separate sections welded together.

HENRY WIGGINS & Co., Hereford — Engineers: W. S. Atkins & Partners, London





The resources, technical knowledge and experience of the Briggs Organisation are at the disposal of every Architect and Engineer. Consult our nearest area office for further details of Briggs Technical Design Service.

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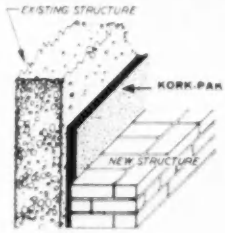
# KORK-PAK

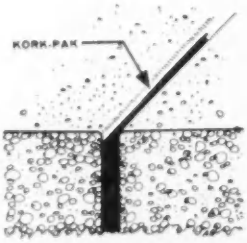
## in

## Building

## Construction

## The Cork-Bitumen Joint Filler

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AP351

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**See CMC about Cement!**

*Does Lord Lud still use the Club, Fortescue?*

Indeed, Sir Henry. He is, at this moment, recumbent in his usual armchair —asleep.

*I am glad to note, then, that he has conquered his infernal habit of snoring . . .*

On the contrary, Sir Henry. It is *we* who have conquered his snoring! Cast your mind back to the last Committee Meeting . . . when I was largely instrumental in getting it agreed that Cullum instal their Acoustic Tiles in here . . .

*Ah yes . . . Cullum, the tile people. I had already formed the impression this ceiling looked unusually appealing to the eye. And Gad . . . you mean Lud is snoring now?*

Precisely, Sir Henry! But Cullum Acoustic Tiles *control* the sound. Cut down *unwanted* noise. Ensure that air of 'padded' peace and unruffled calm.

*Steward! Two more doubles please . . . we must drink a toast to Cullum at once!*

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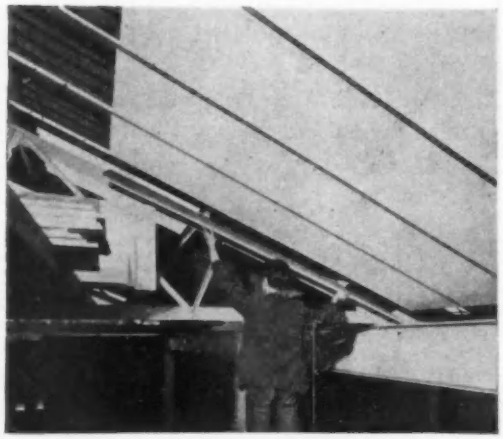

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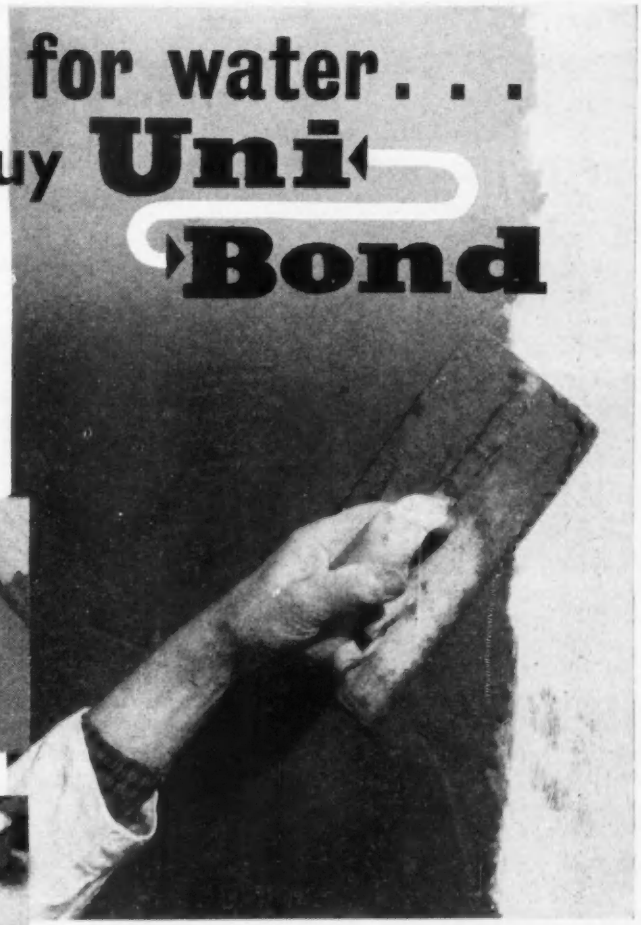

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A considerable degree of dilution is recommended before use.

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|---|---|
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| 5. Galvanised Iron to Galvanised Iron | 95lbs. |
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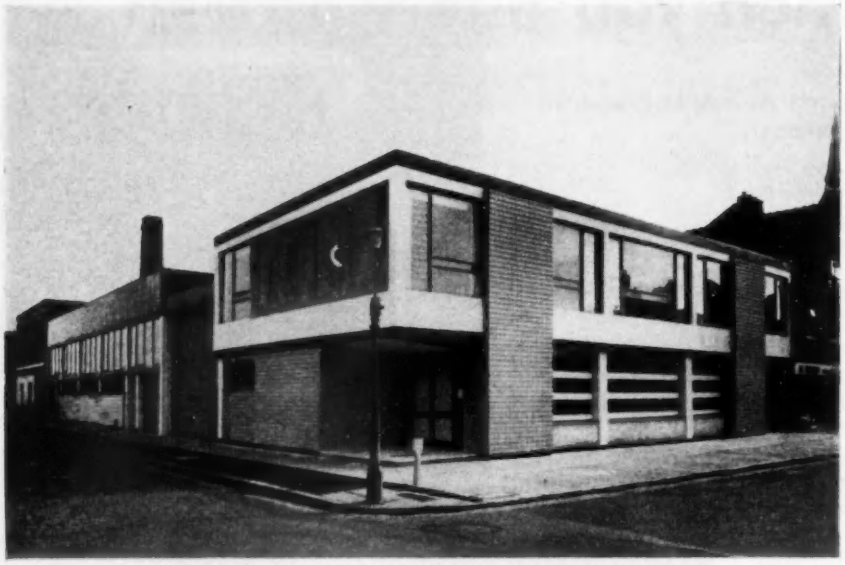

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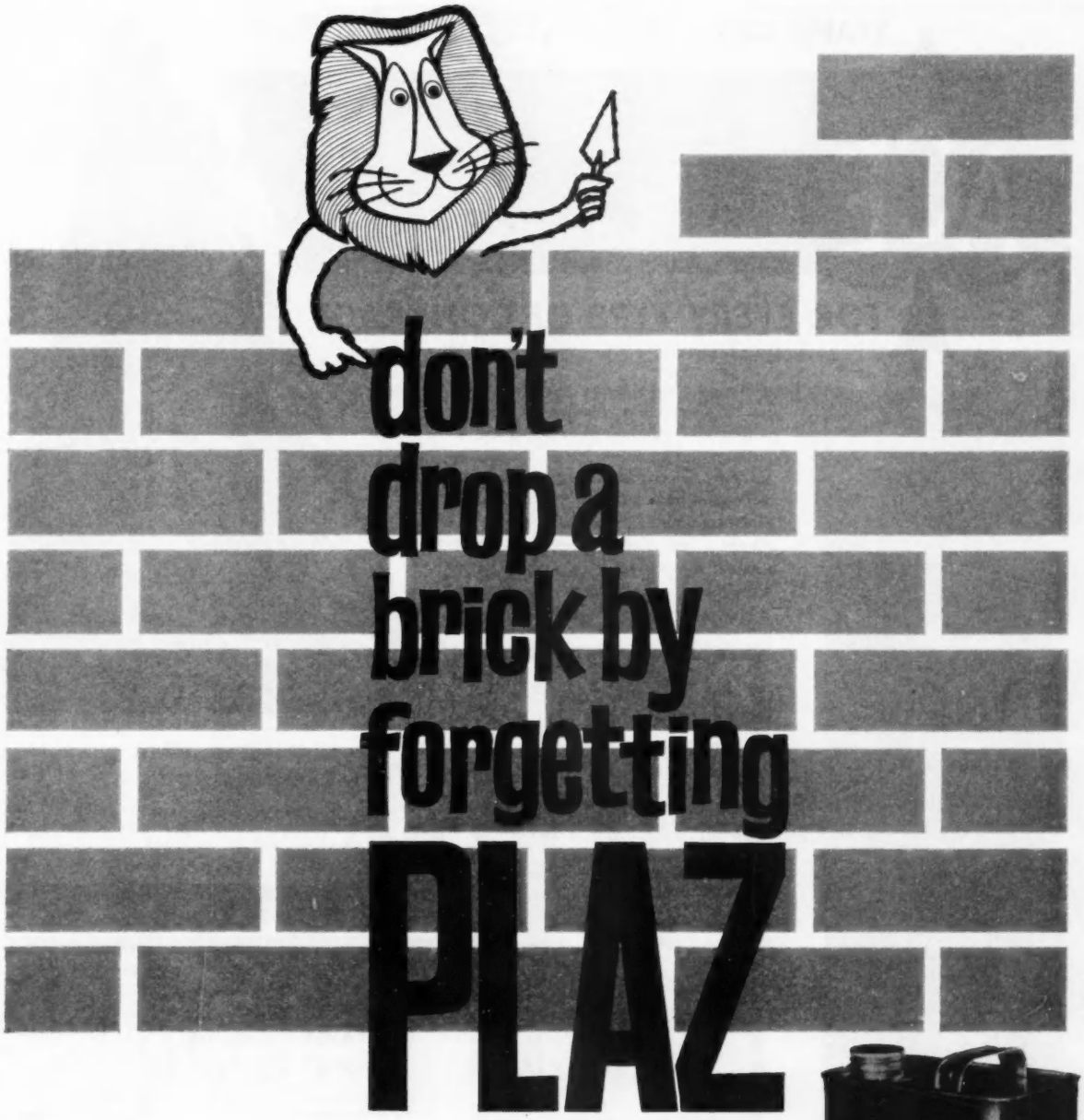


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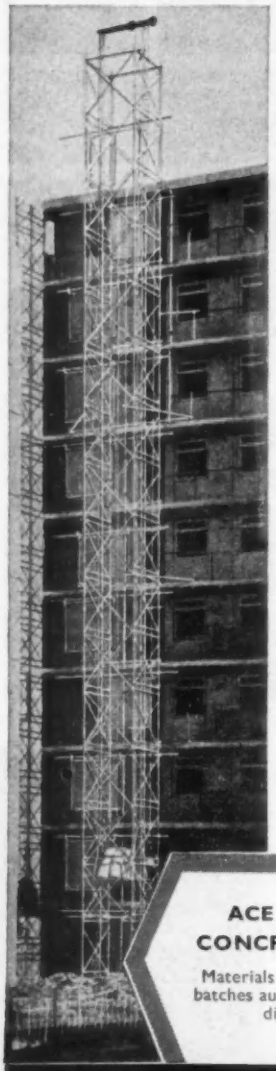

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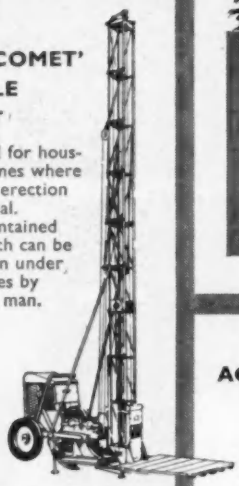

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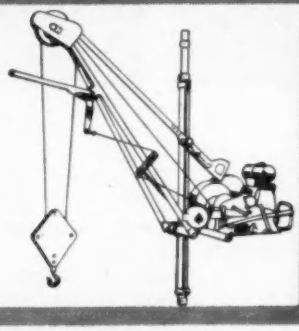

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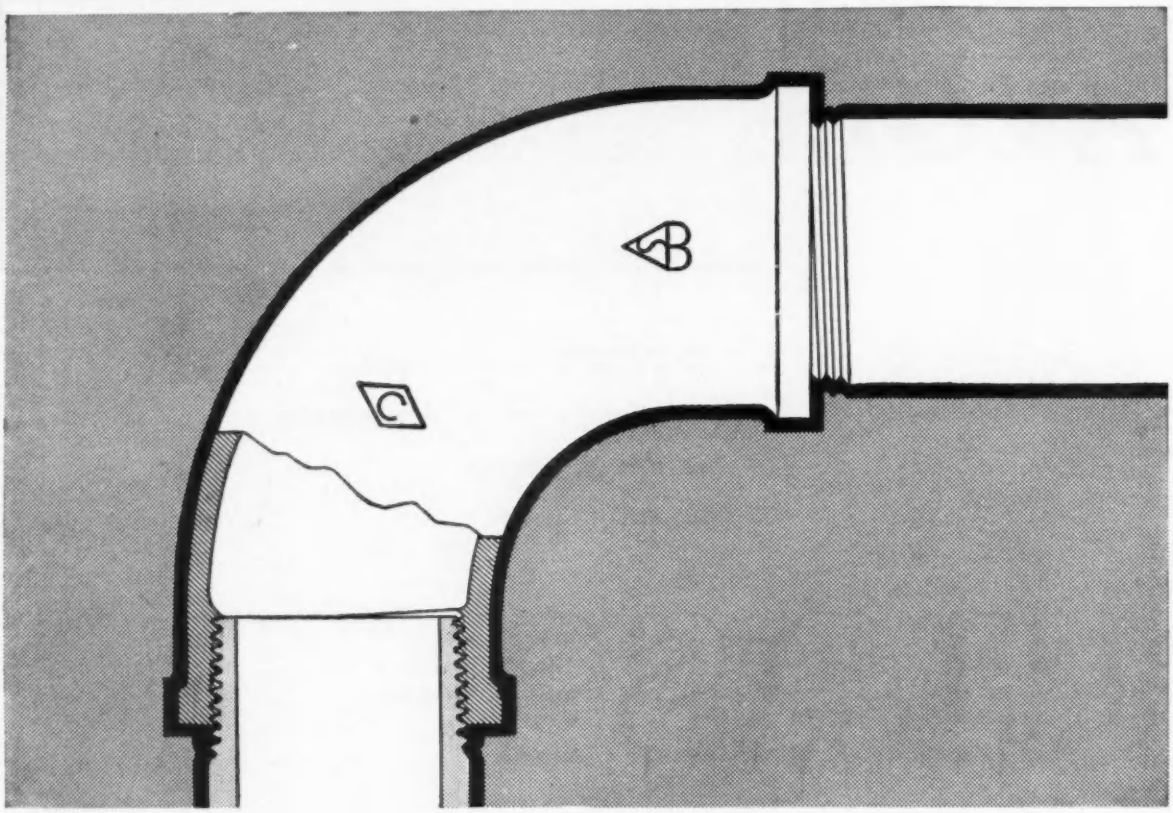


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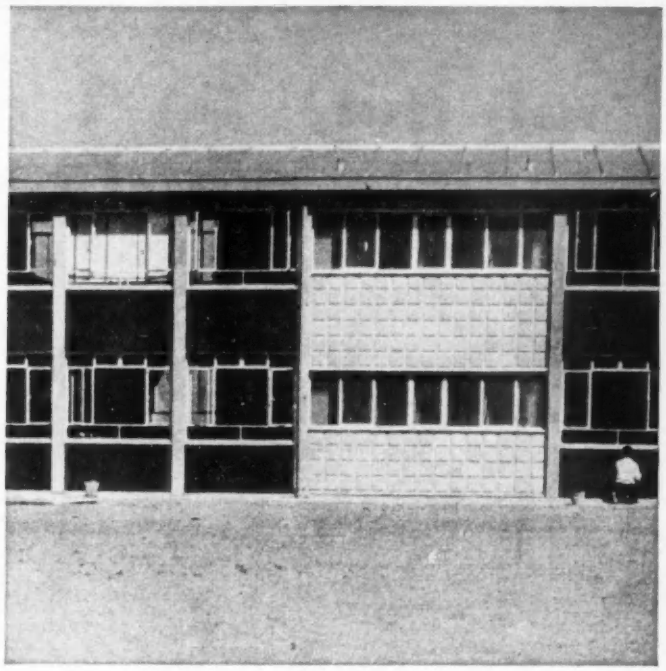

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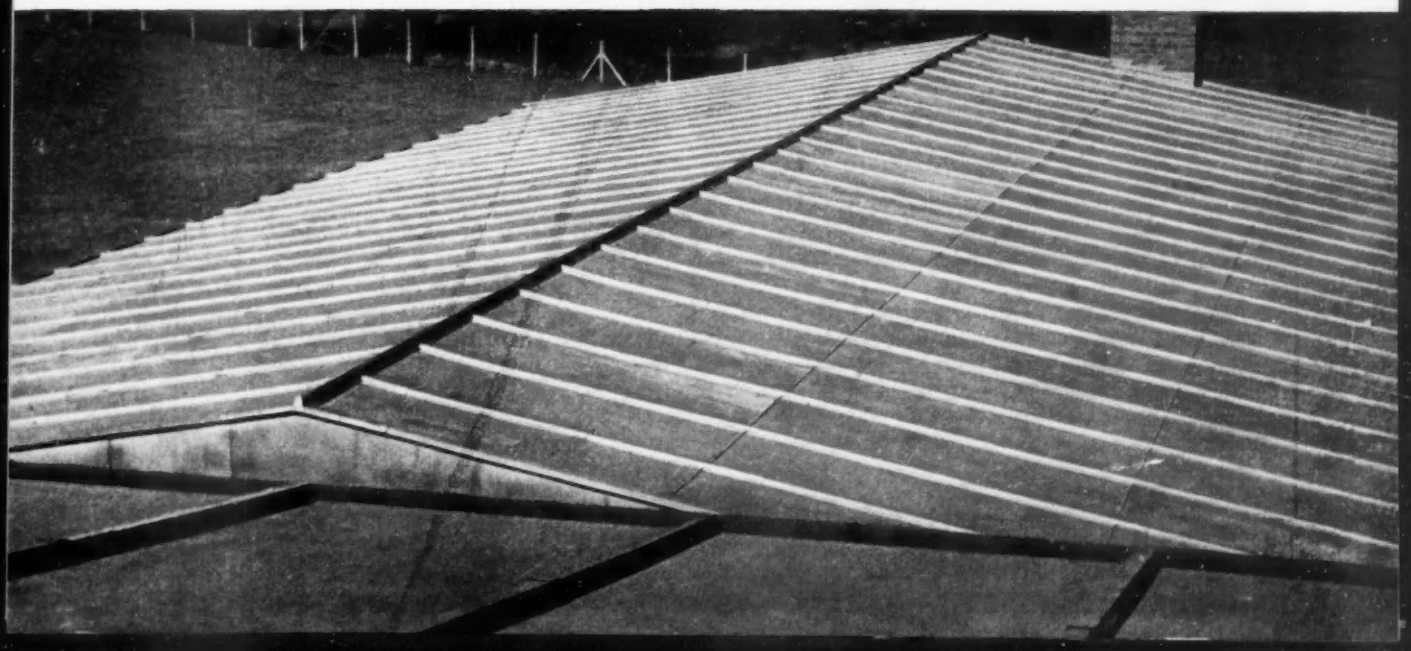

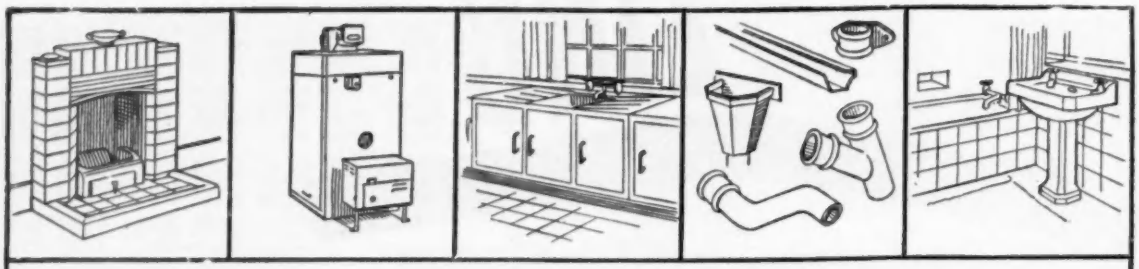

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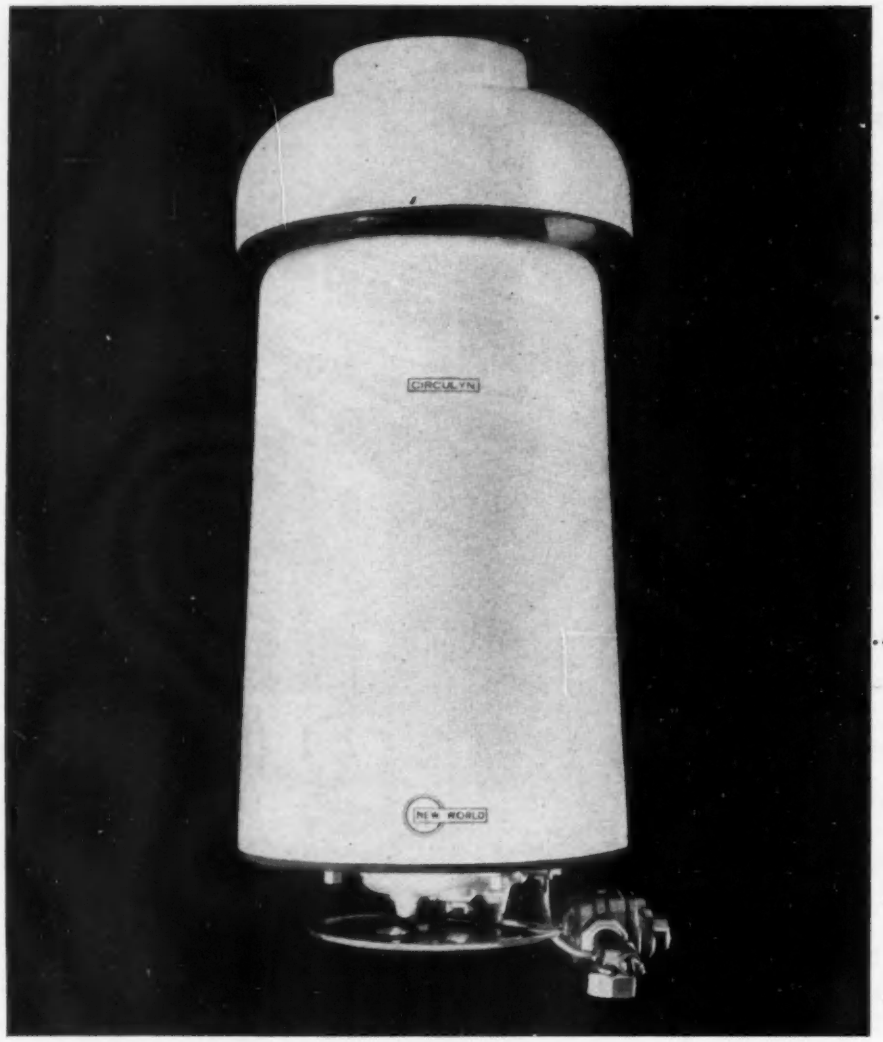


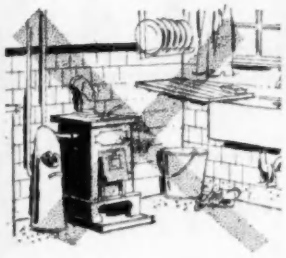

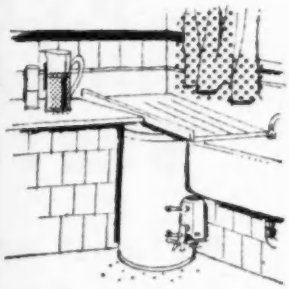

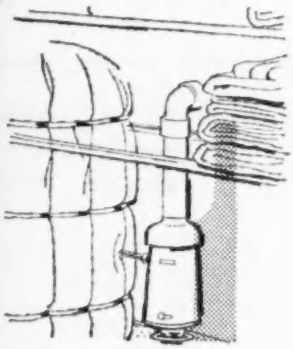

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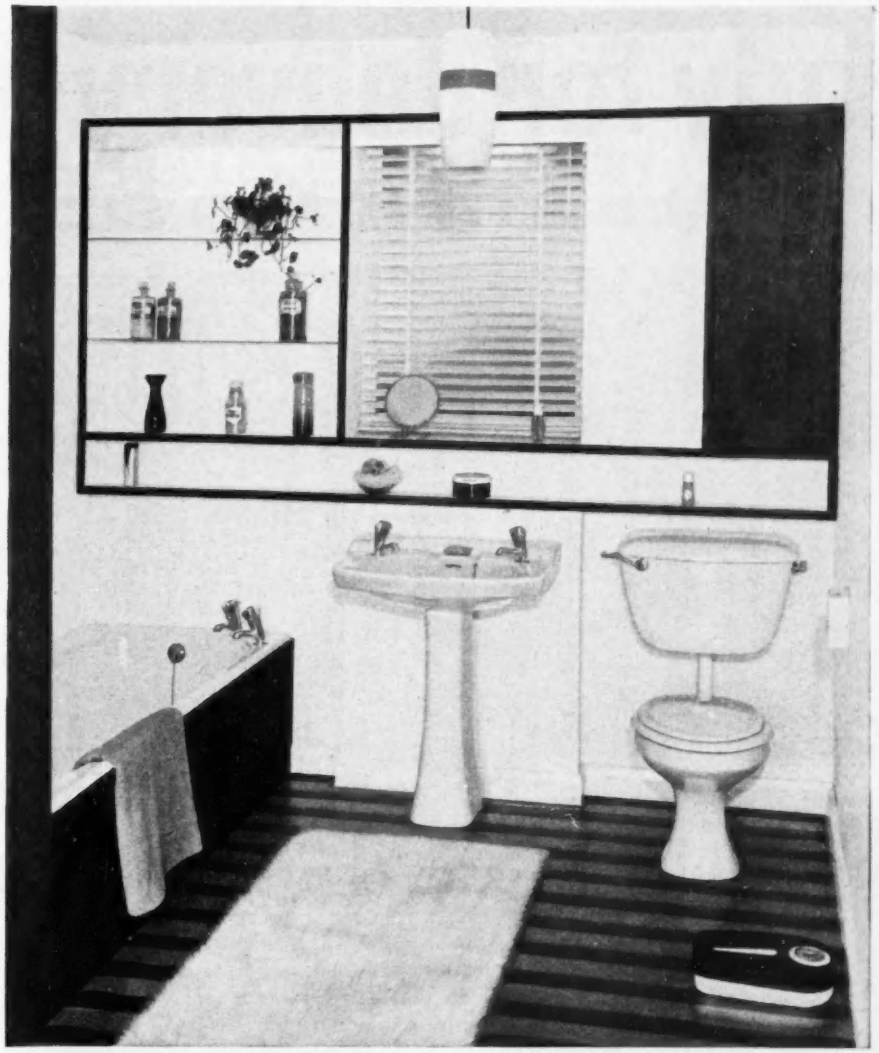

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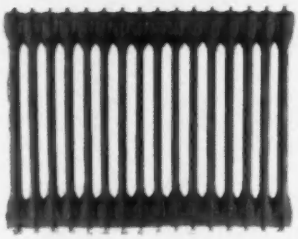

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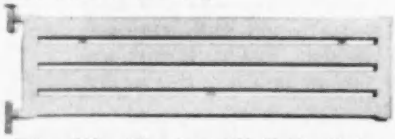

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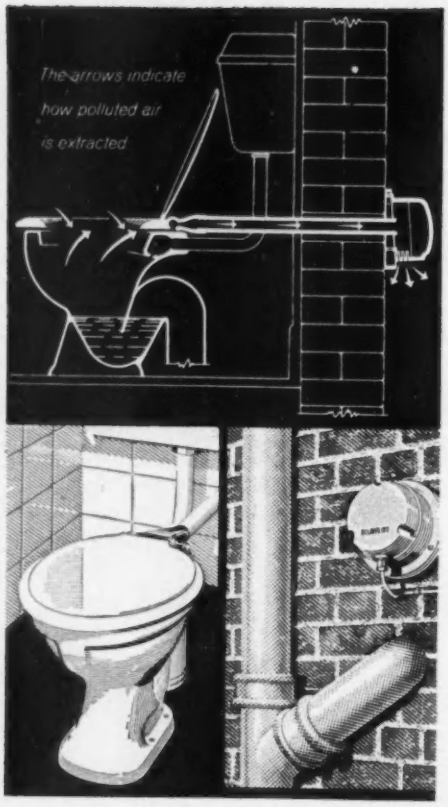


Bacteria are invariably present in air polluted by the use and flushing of a W.C., and the danger is strikingly explained in an article published in *The Lancet* recently, which states:

**'. . . . the flushing of the water closet generates particles of sizes capable of penetrating to the lower respiratory tract, as well as of deposition in the nose, mouth and eyes, and upon surfaces touched by the hands . . . .'**

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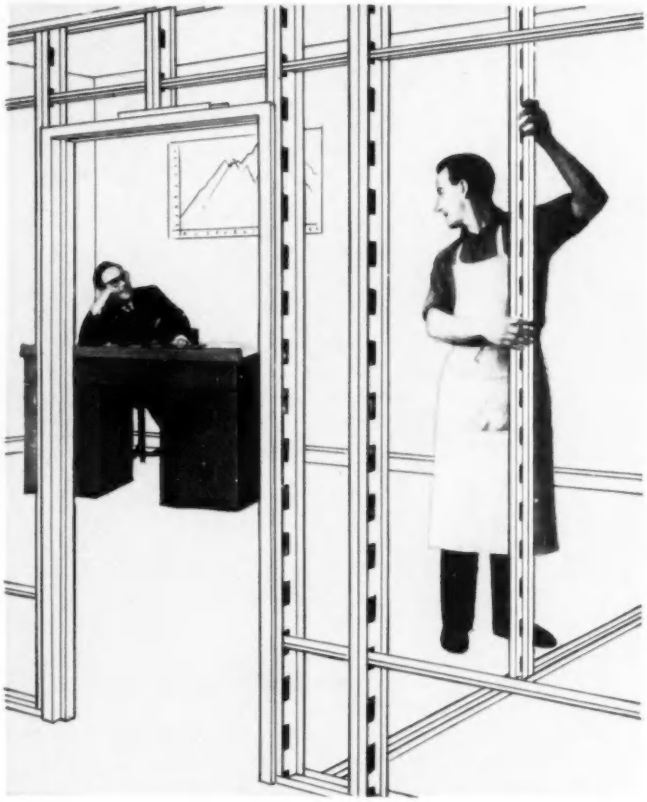

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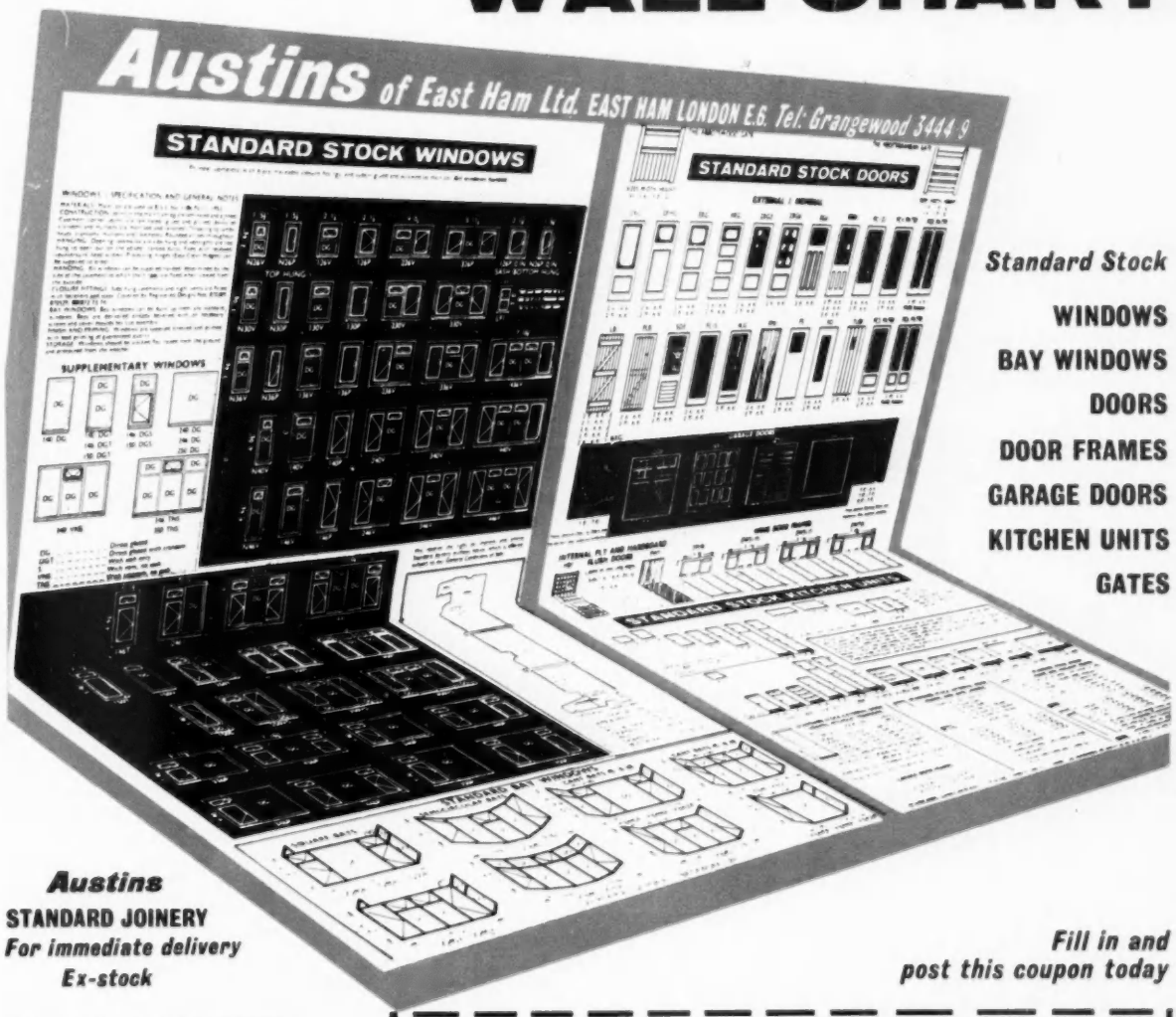


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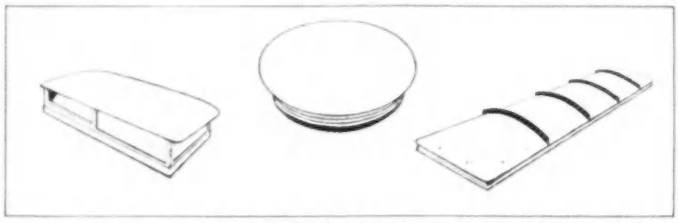

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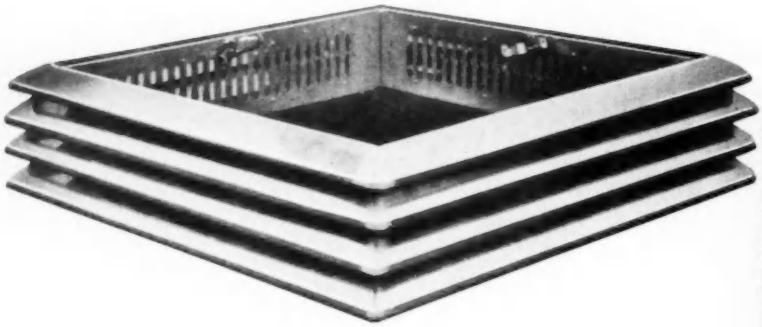

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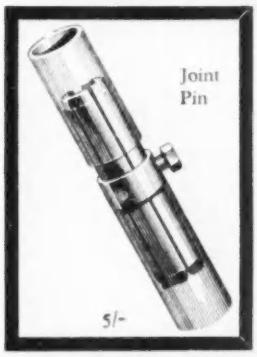

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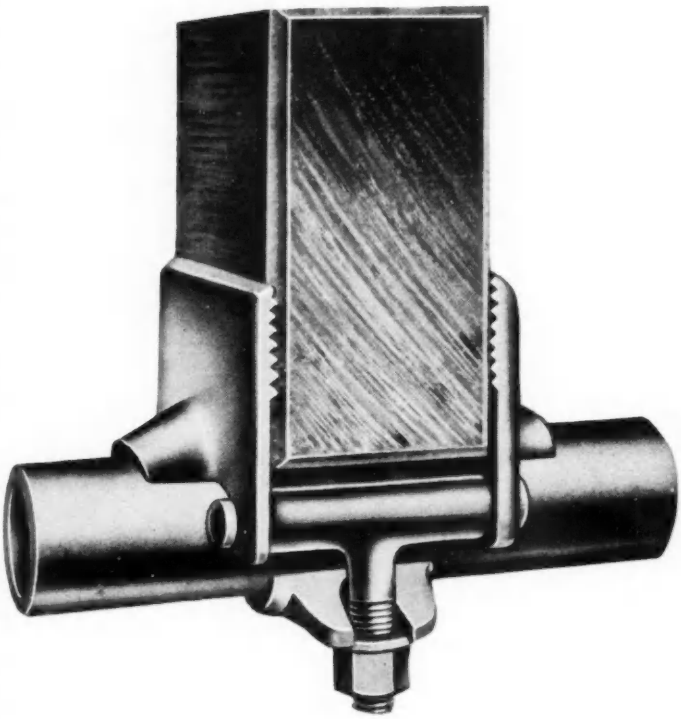

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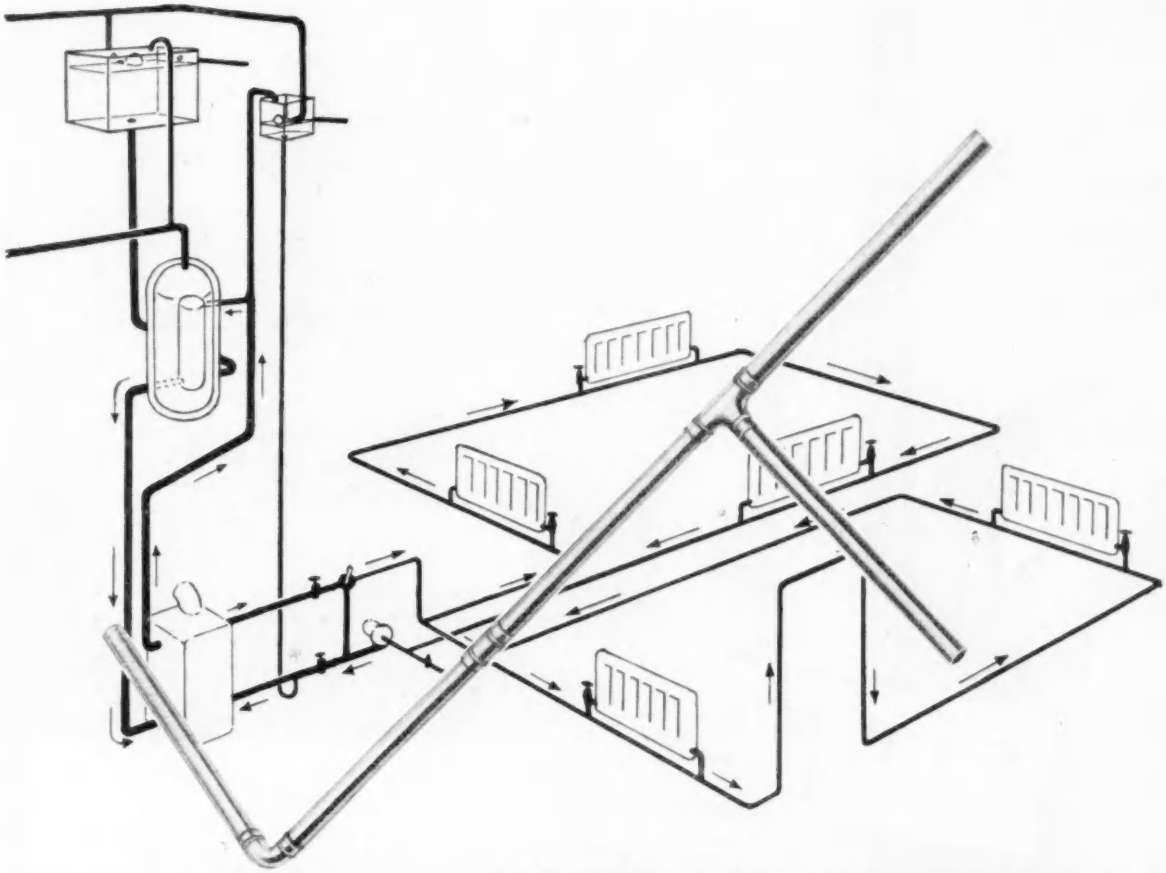


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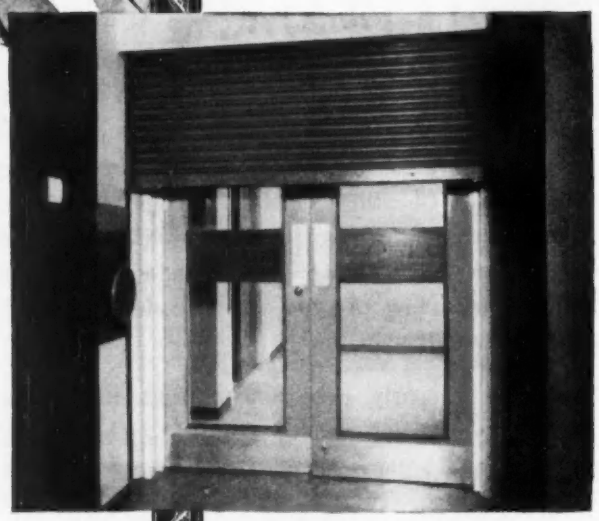

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*Above: FIROLA Shutters (double sets) installed for Messrs. Maple & Co. Ltd. Tottenham Court Road, London. Architects: Dalgliesh & Pullen F/F.R.I.B.A.*

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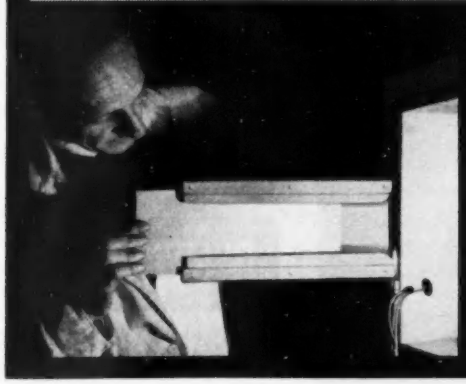

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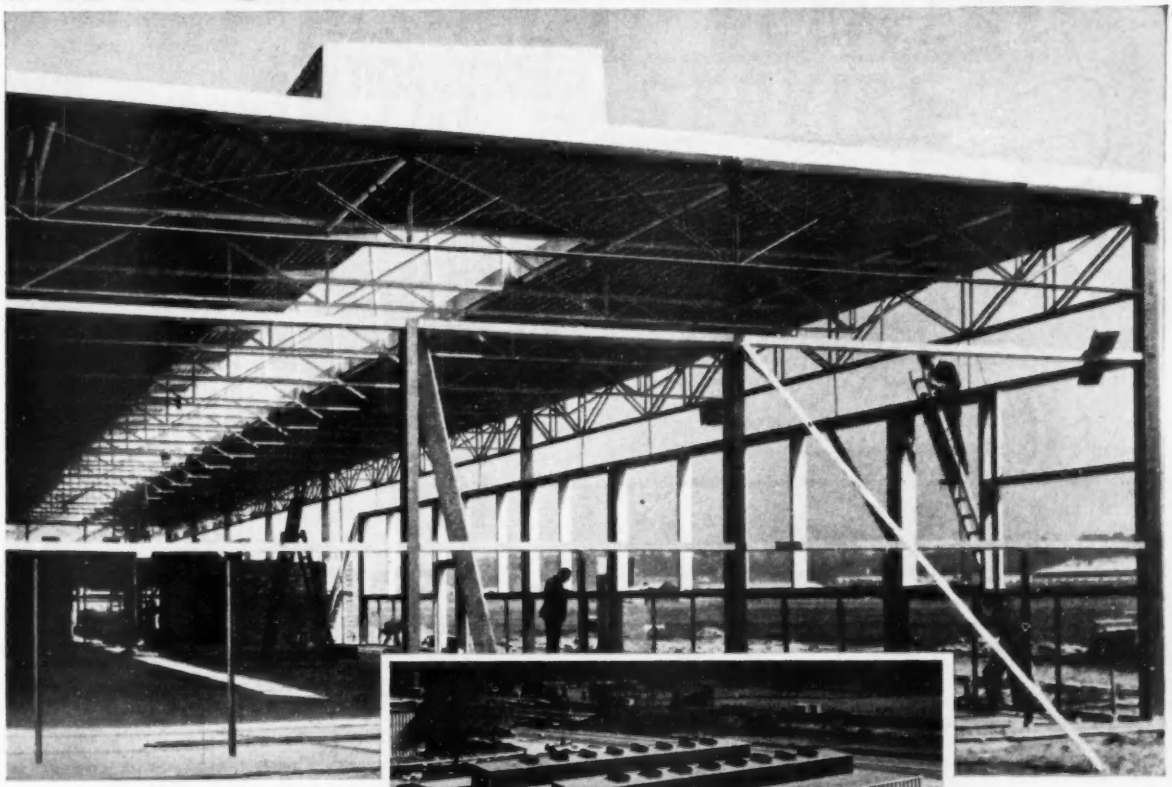

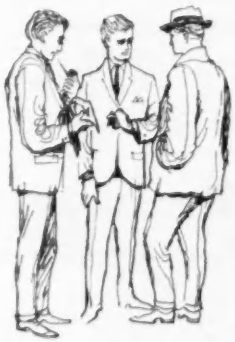

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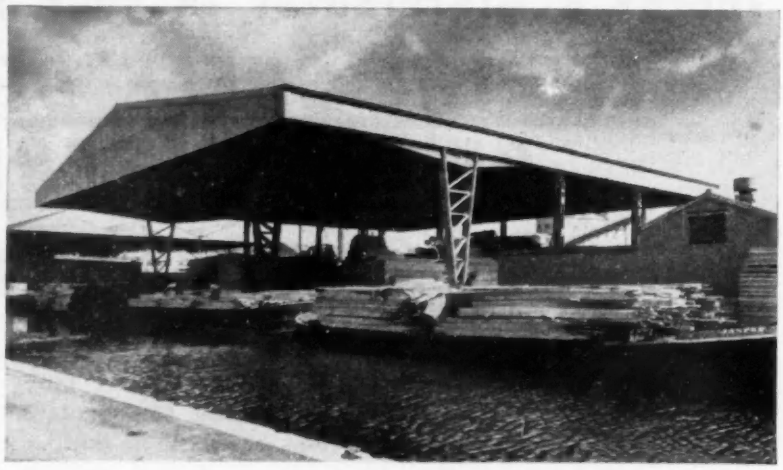

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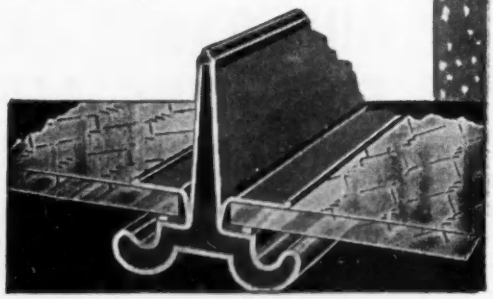

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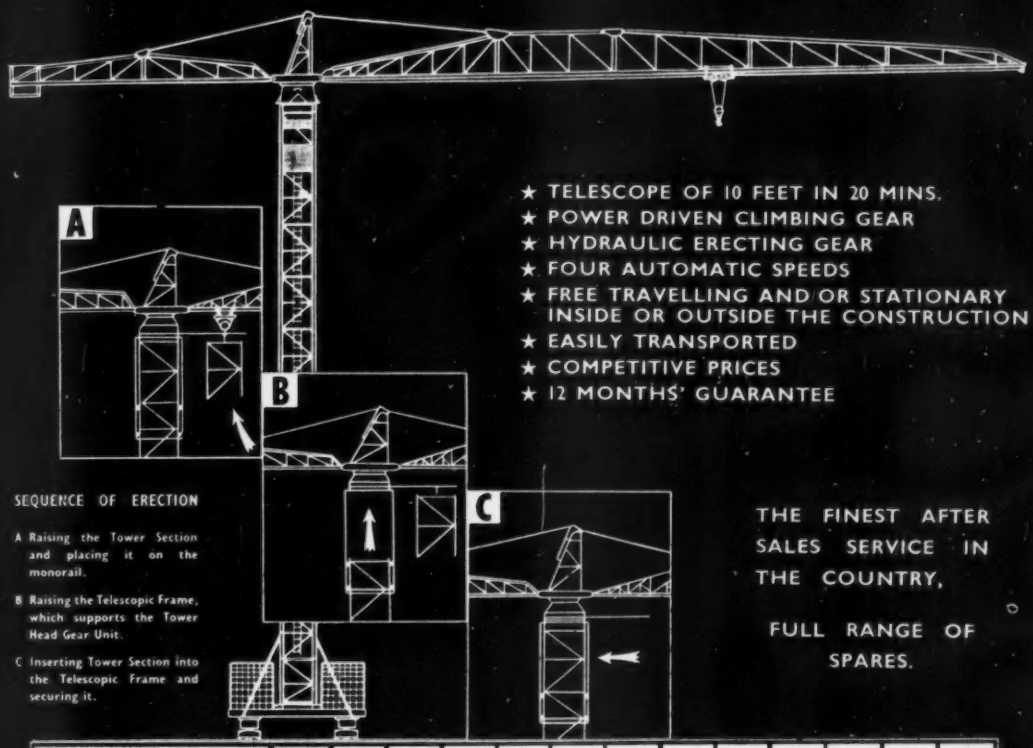


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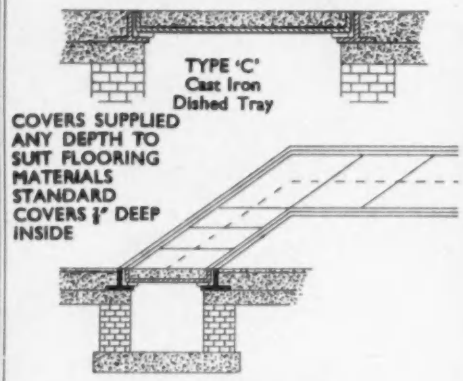


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*Above: Bexthene sheet for Cork Airport runways was supplied by Bishop Plastics Ltd. Dublin to John Paul & Co. Ltd. Contractors to the Department of Transport and Power, Dublin.*

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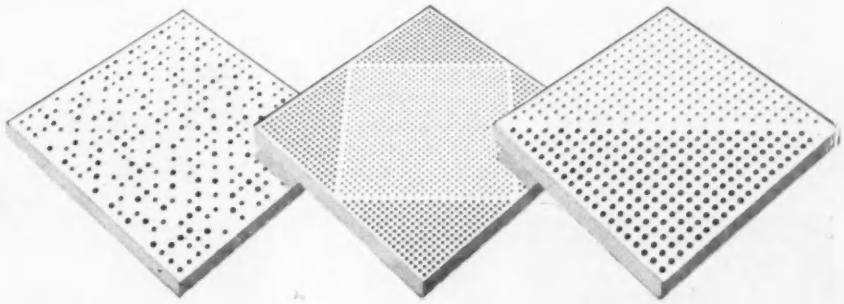

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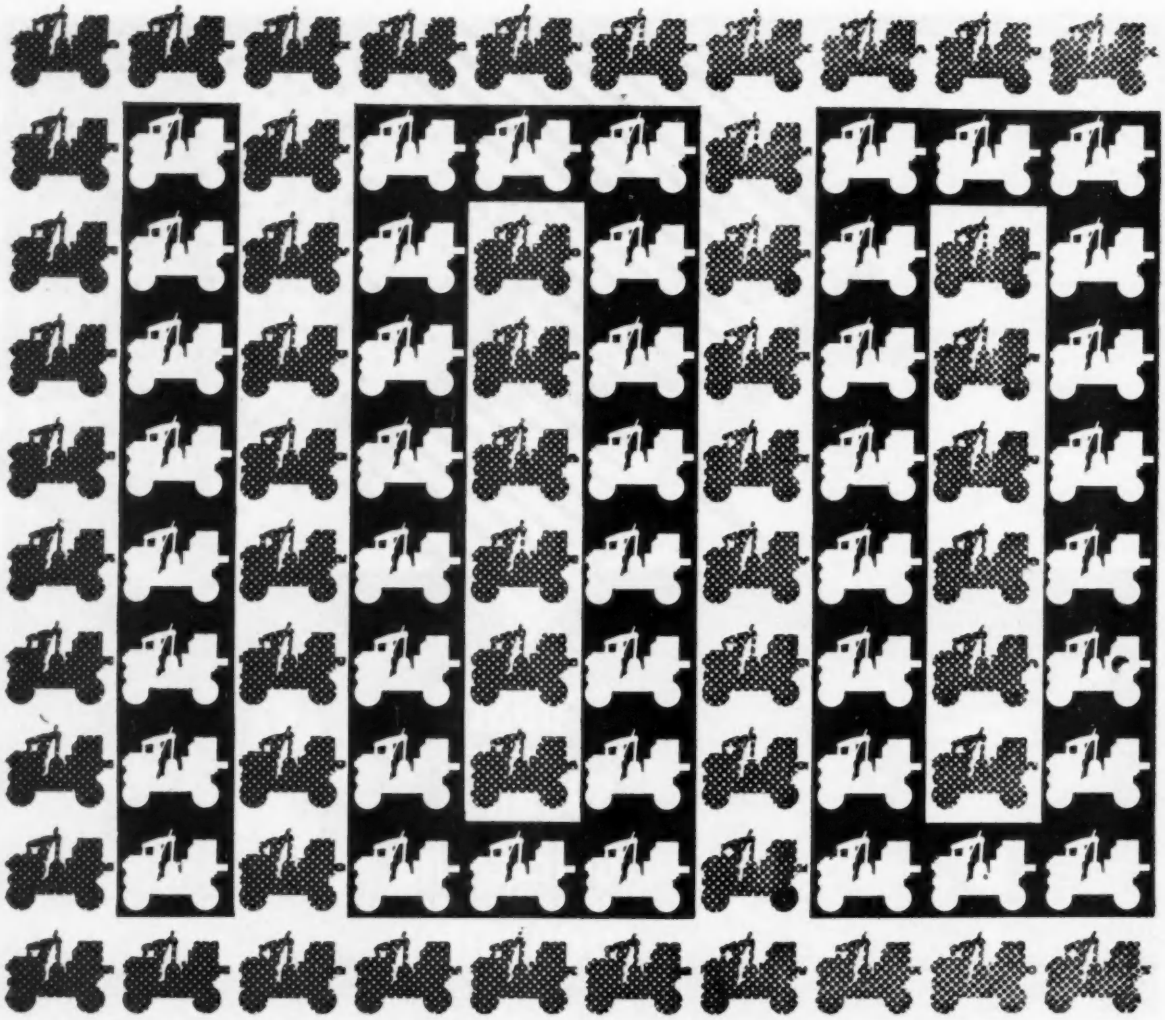


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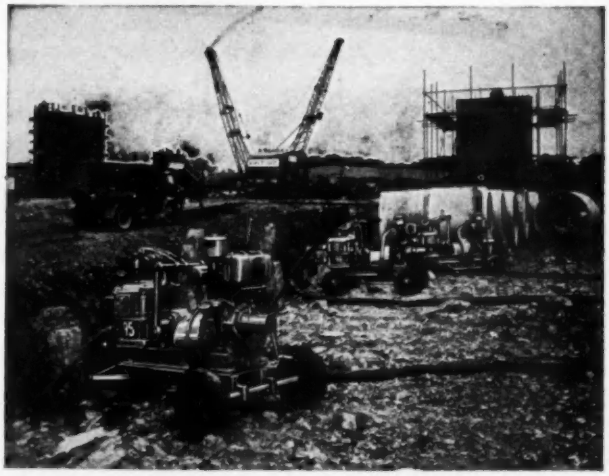

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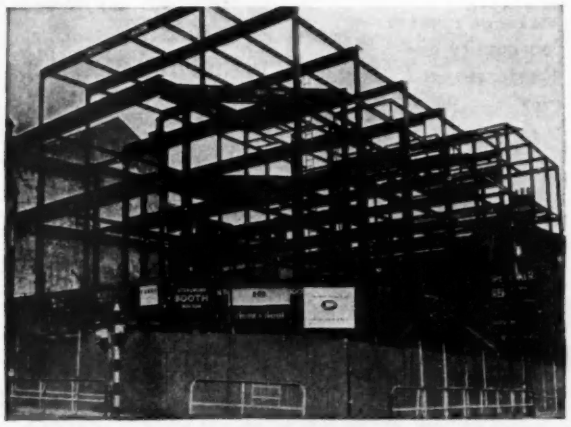
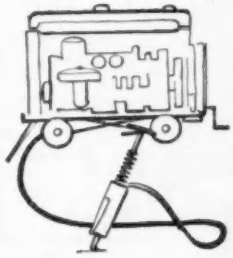
*Architect: C. St. C. Oakes, M.B.E., F.R.I.B.A.*



### Booth Steelwork for Ingersoll-Rand



The photograph below shows steelwork in course of erection for extension to this well-known company's premises at Trafford Park, Manchester.

*Architect: Harry S. Fairhurst & Son, F/A.R.I.B.A.*

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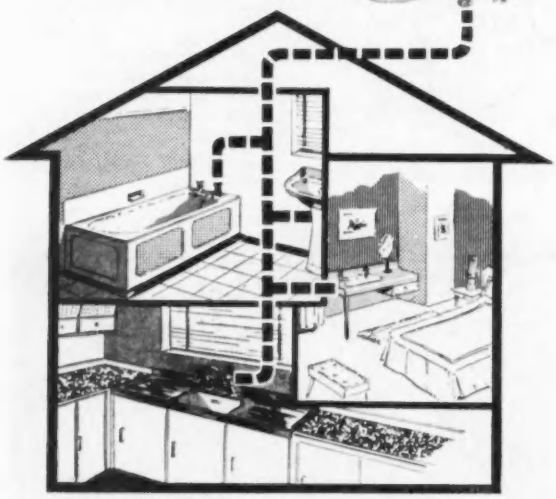

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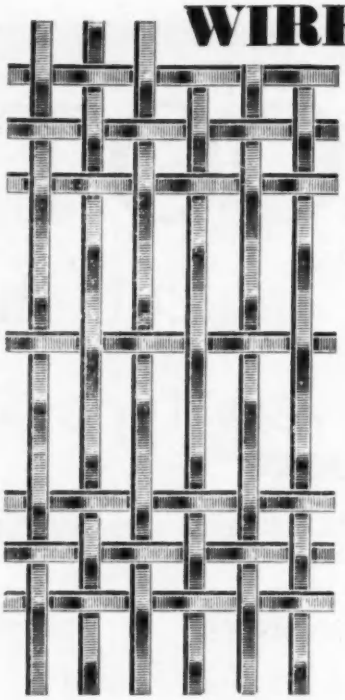

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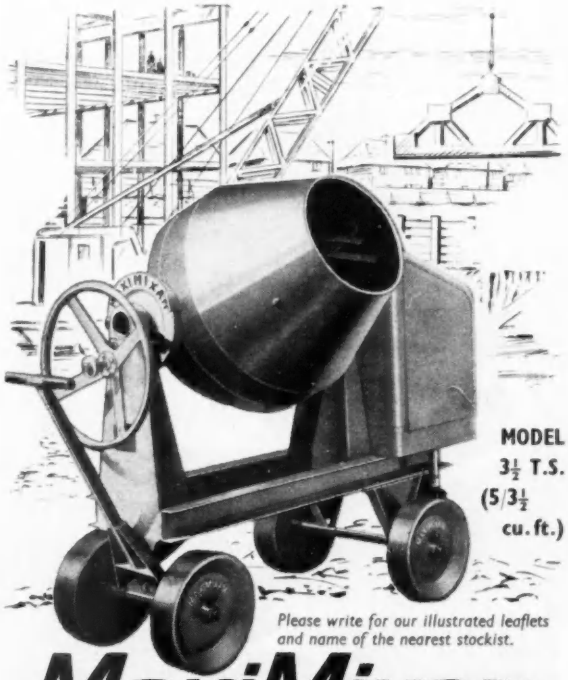


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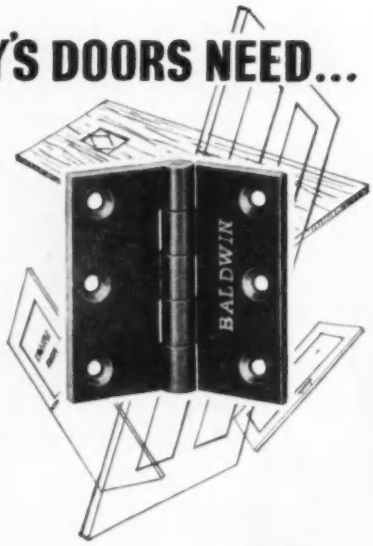


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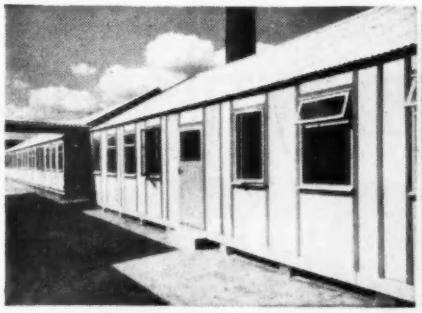

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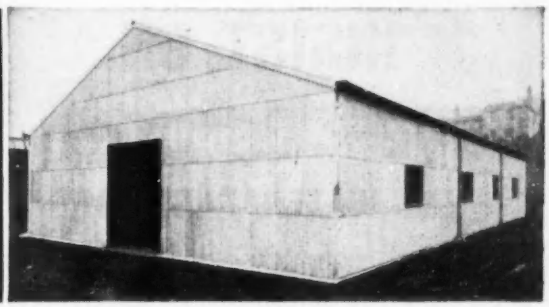

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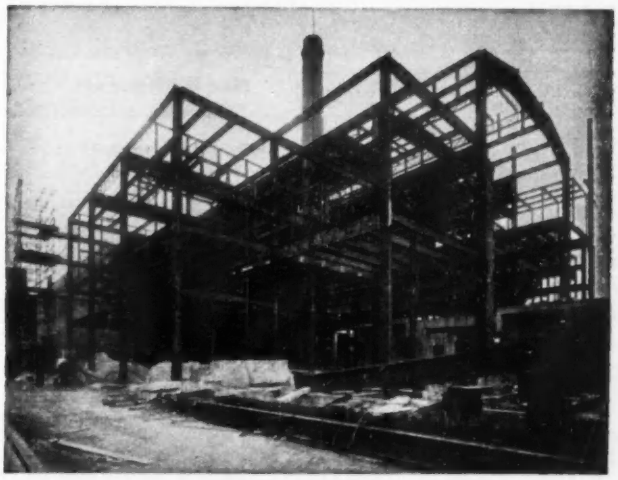

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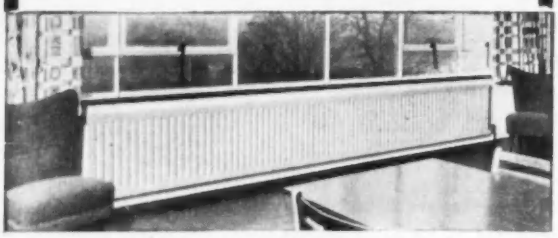

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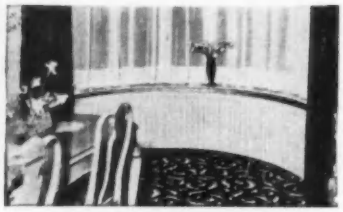

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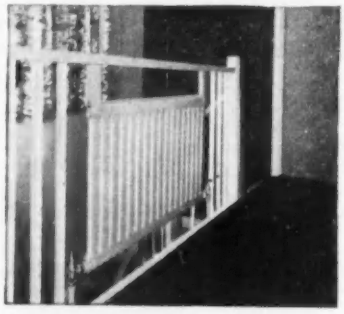

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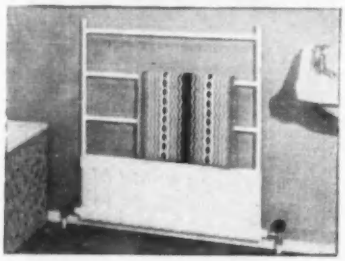

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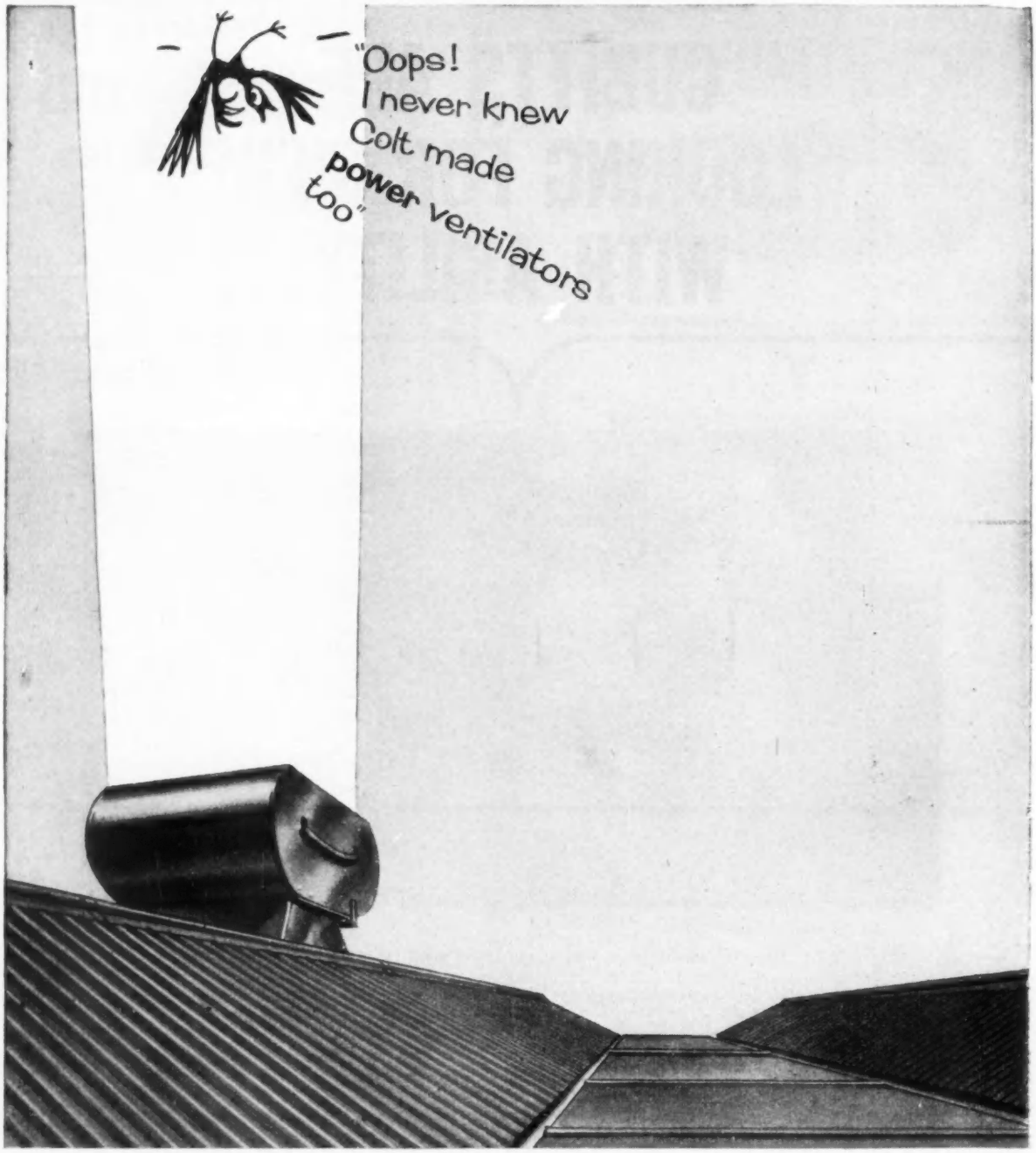


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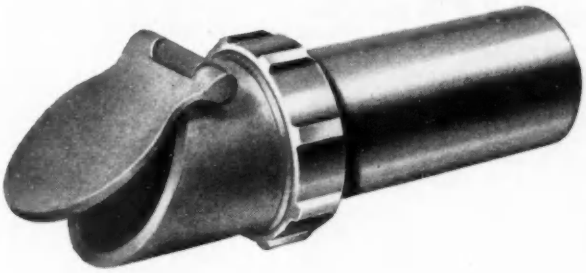

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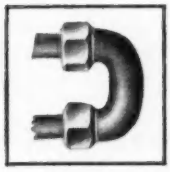

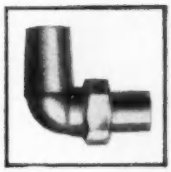

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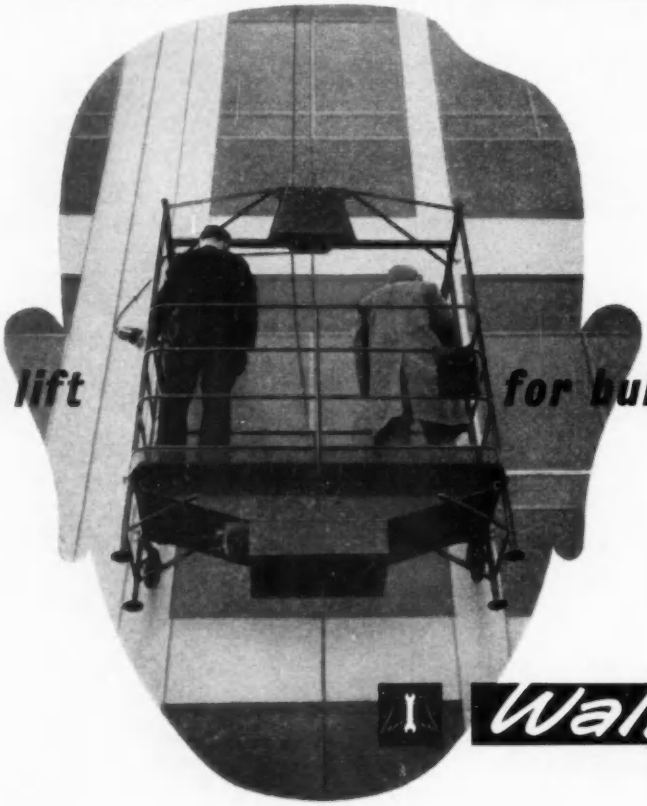

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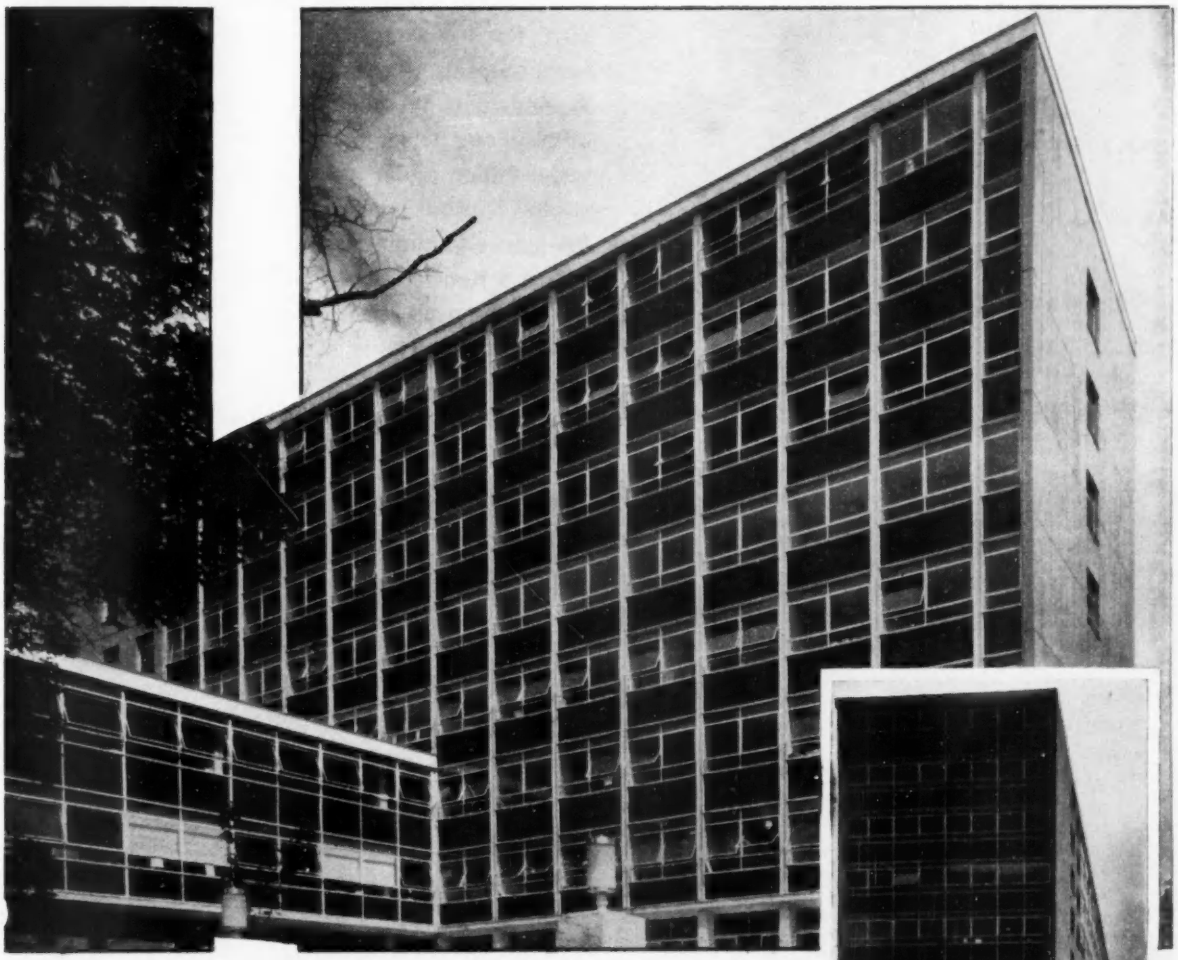
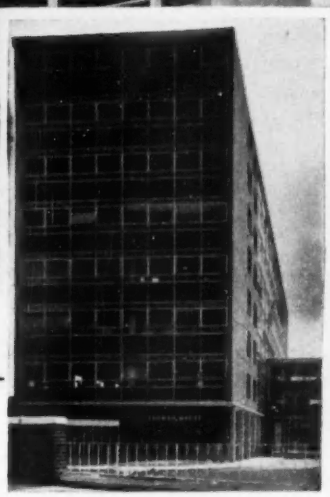


## and windows



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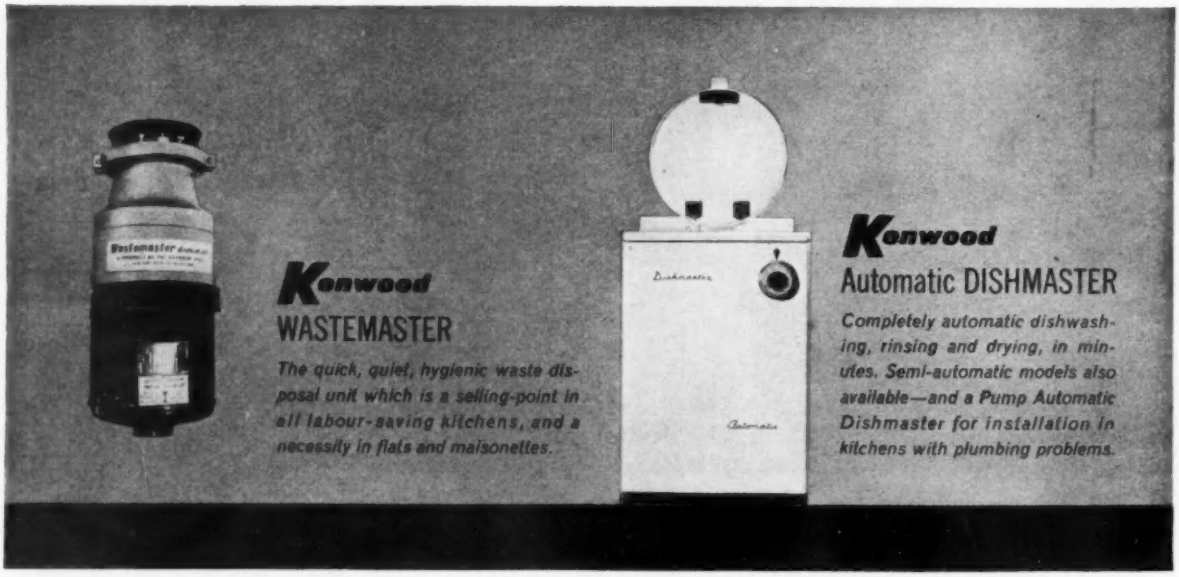


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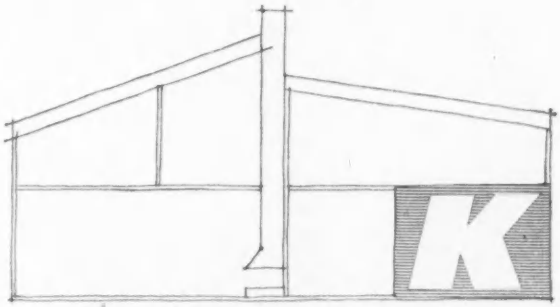


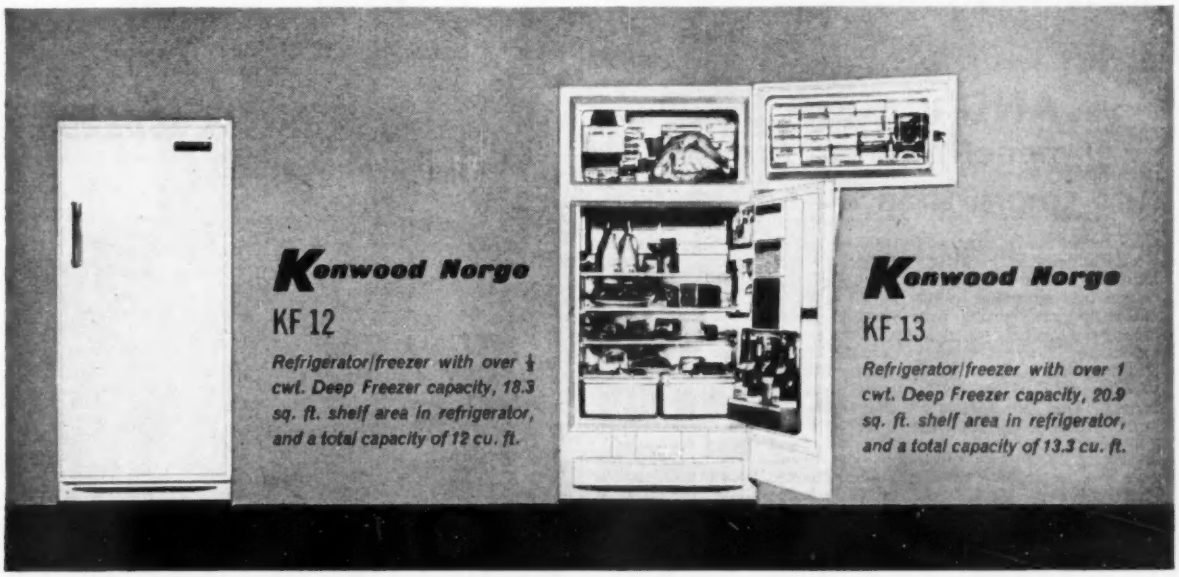


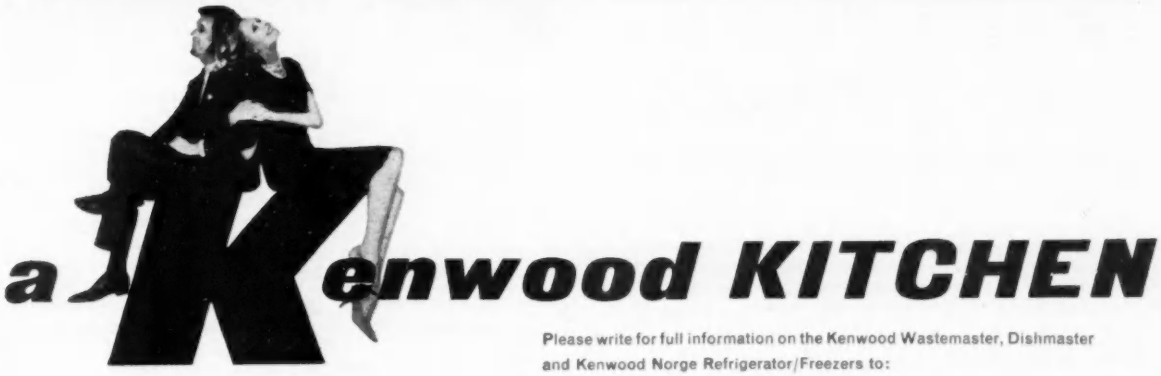


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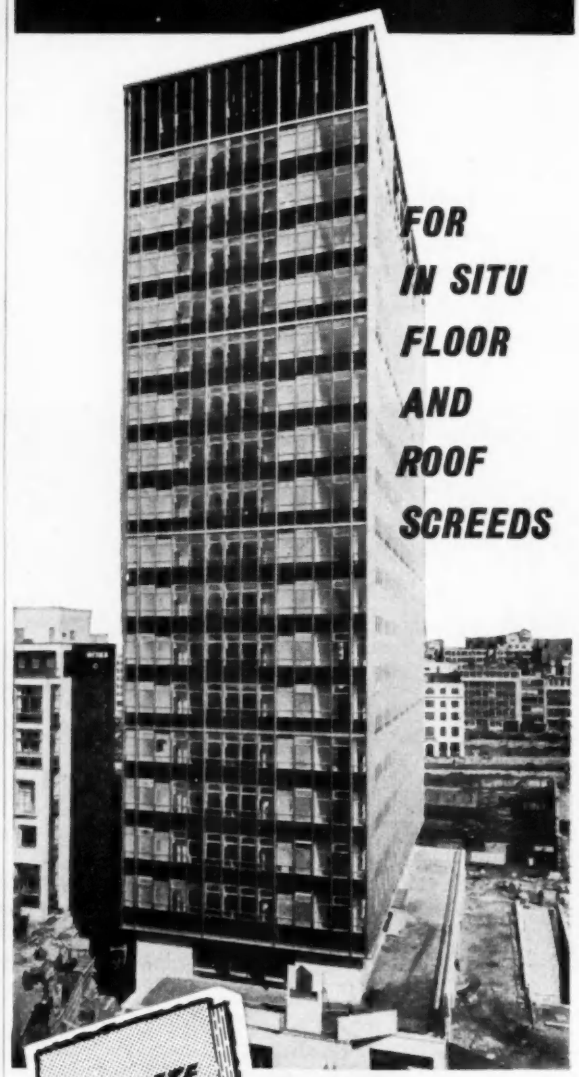

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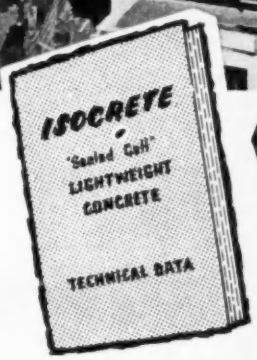


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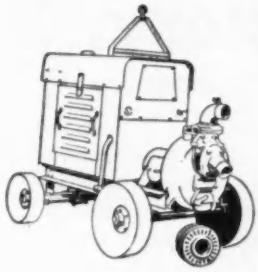

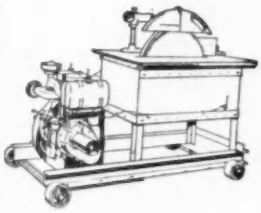

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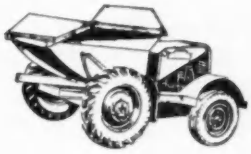

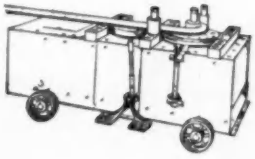

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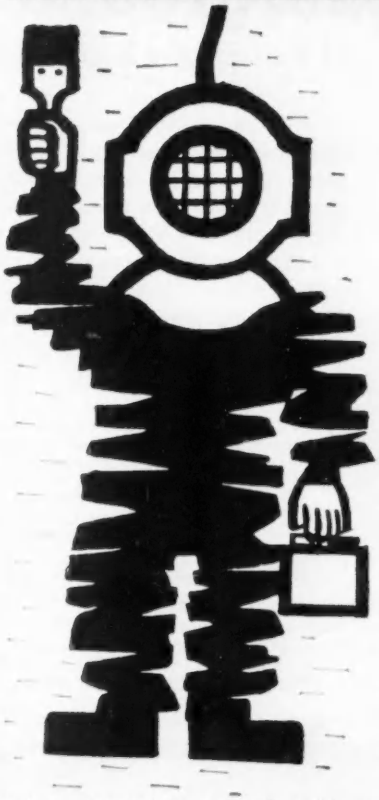

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# Underground story...

## of Waterproofed Ready-Mixed Concrete

When, in 1958, the beer cellar of the 'Harp' public house at Parson's Mead, Croydon, was excavated for rebuilding, water was found to be present at a depth of only 3ft. 6ins. below the level of the upper surface of the old floor. To combat these inherently damp conditions 'Pudlo' CEMENT WATERPROOFING POWDER was specified for the READY-MIXED CONCRETE used in the new floor.

'Pudlo Waterproofer' was also used in the internal rendering of the outer walls and, to ensure complete protection from damp penetration, a 'Pudloed' cove was formed at the junction of the wall and floor.

### TECHNICALITIES:

**Floor**

*Area:* approximately 1,250 square feet.

*Composition:* Waterproof Ready-Mixed concrete to 8" thick, with granolithic surface.

*Mix:* 4:2:1 reinforced with No. 8 B.R.C. fabric and waterproofed with 16 lbs. 'Pudlo' cement waterproofer per cubic yard of 'SURECRETE' Ready-Mixed Concrete.

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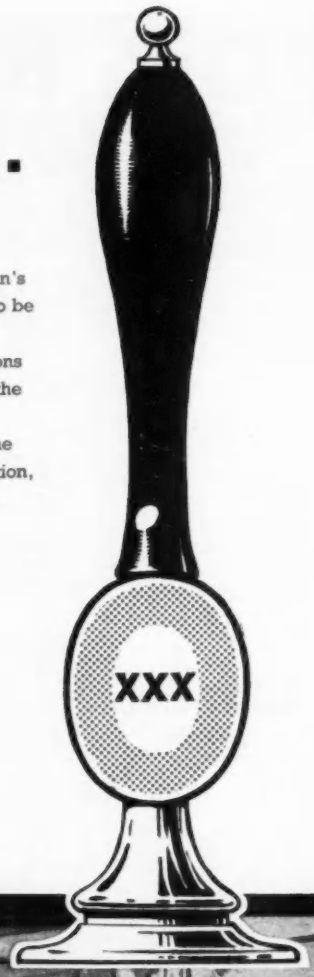


*Beer Cellar of the 'HARP' Parson's Mead, Croydon. By Courtesy of Page and Overton's Brewery Ltd.*

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## News Summary


**939** The award is announced in the architectural competition sponsored by Harlow Development Corporation for the design of a housing area of approximately 300 dwellings with provision for one car per house.

**946** By making full use of architects in private practice the LCC hope to achieve a target of 5,000 new dwellings a year compared with 4,000 a year at present.

**949** Plans are being put in hand for reopening of the Royal Academy School of Architecture.

**952** A case for revision of the Charter was put during debate on the constitutional committee's report at the annual general meeting of the RIBA on May 9.

**956** In a comment on the White Paper 'Housing in England and Wales' the RIBA 'particularly welcomes' the proposal to make exchequer loans to approved non-profit making housing associations to build houses to let at economic rents.

**958** The Public Health Bill, which embodies proposals for central building regulations to replace local by-laws, is among measures which may have to be held over until the next session owing to heavy pressure on the Parliamentary time table.

**960** The results are published of the 1961 Manufacturers' Trade and Technical Literature Competition in which 198 entries were submitted by 106 manufacturers.

**965** Two projects for the redevelopment of the central area of Birmingham, the Inner Ring Road and the new Bull Ring Centre, are described and illustrated.

**969** In the first three months of 1961, 69,056 permanent houses were completed in Great Britain compared with 66,476 in the same period of 1960.



*'Late News' will be found overleaf, and 'News of the Week' on page 949*

## *Late News*

### LCC and the National Theatre

IN PURSUANCE of the statement made by Sir Isaac Hayward, Leader of the London County Council, on April 4, that he would be prepared to recommend the building by the Council of a National Theatre on the South Bank (provided the Government would contribute £1m.) the Council on May 16 endorsed these views. The meeting also passed a recommendation that they should accept responsibility for finding from the rates the balance needed to build a National Theatre, subject to agreement by the Government to contribute £1m. as envisaged in the National Theatre Act, 1949. A deputation is to be appointed to express the Council's regret at the Government's recent decision, and to seek the latter's support and co-operation based on the resolution.

### Three-Tier Flyover for London

BELIEVED to be the first of its kind in Britain, a three-tiered flyover is proposed for one of the worst traffic crossings in London, the Brent Cross junction, where M1-bound traffic crosses the North Circular-road. The Ministry of Transport has approved in principle the design of Sir Bruce White, Wolfe, Barry & Partners, consulting engineers, 1 Lygon-place, SW1. It was produced with a view to publishing a draft order to fix the line of the road.

The Ministry states that the three-tier principle will be applied elsewhere if traffic conditions justify it. Hendon-way will be a flyover and the North Circular-road a dip-under. The two streams of traffic can connect by way of an aerial roundabout built between them. The road will not pass through the present junction, and the junction will be built between them. Hendon-way will be re-aligned and the section of it which crosses the North Circular-road removed entirely.

# The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CC. May 19th 1961 No. 6157

Published from 'The Builder' House, 4 Catherine-street, Aldwych, London, WC2. Telephones: Temple Bar 6251-4.

Annual subscription rate: £4. Special rate for Students following an approved architectural or technical course: 30s. Single copies (including back numbers, where available, up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

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## Leading Articles

# An Air of Purpose

THE AIR OF PURPOSE discernible at last week's annual general meeting of the Royal Institute of British Architects is much to be welcomed. The proceedings were lengthy—the start was delayed by an hour by the extraordinary general meeting at which members debated at length the old conundrum, the difference in meaning between 'a majority of 4/5ths of those present and voting' and 'a 4/5ths majority of those present and entitled to vote.' The meeting decided on the latter formula, a decision that may make any but the least controversial by-law most difficult to change. Before closing this part of the proceedings, THE PRESIDENT paid a tribute, warmly supported from the floor, to MR. CLEEVE BARR and his constitutional committee for their work on the by-laws.

The observer was impressed by the interest taken by members in the various aspects of the Institute's now very wide field of activity, and by the tenacity of some of the younger membership in holding to their point. About 300 were present—a very different story from the meetings of a few years ago when report and accounts were received with apathy by a handful of press-ganged members. SIR WILLIAM HOLFORD, a fair and firm chairman, realising that the meeting is the one opportunity in the year for the Institute's rank and file member to make his voice heard, gave full rein to those who wished to comment. In the event, most of the committee reports came under review and if some subjects—notably the work of PROFESSOR MATTHEW'S sub-committee on the training of the technician class—occupied a disproportionate amount of time, members thereby at least established the depth of their interest and concern in a matter which is clearly complicated by factors other than those connected with the most efficient means of staffing architectural offices.

Yet for all its sense of purpose, the meeting disclosed an undertone of apprehension on the part of the back-bench members—apprehension that decisions, notably on the question of the possible creation of a 'two-tier' profession, should be taken by Council without reference to the full body of membership. This was shown by the support given to MR. R. D. BUTTERELL'S amendment calling on the Council to communicate the information on which it will base its decision on the technician-class question before any decision be taken. THE PRESIDENT resisted this as being tantamount to a vote of no confidence in the Council, and the amendment after full discussion was withdrawn. The incident was valuable, nevertheless, as pointing to the long road which the Institute has yet to travel in establishing a full relationship of trust and confidence between Council and headquarters and the ordinary member, especially those from the Allied Societies. In this matter members and Allied Societies must do more to help themselves; 300 present at an annual meeting out of a total membership in the UK of 16,000 is hardly good enough when matters affecting the Institute's future are under review. The old grumble that London is so far away carries less weight when one hears that, in con-

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*Composition:* Waterproof Ready-Mixed concrete to 8" thick, with granolithic surface.

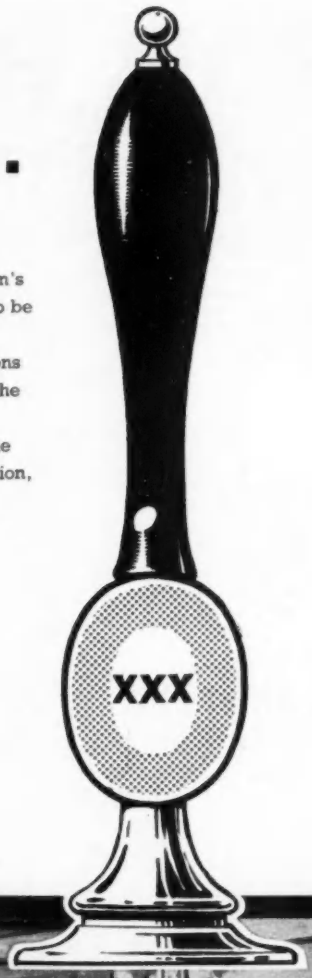
*Mix:* 4:2:1 reinforced with No. 8 B.R.C. fabric and waterproofed with 16 lbs. 'Pudlo' cement waterproofer per cubic yard of 'SURECRETE' Ready-Mixed Concrete.

**Walls**

Hard semi-engineering brick, to a thickness of 13½ inches.

**Internal Rendering**

Two parts Westerham Sand.
One part Portland Cement.
5 lbs. 'Pudlo' to every 100 lbs. cement, applied in three coats to a minimum thickness of one inch.




*Beer Cellar of the 'HARP' Parson's Mead, Croydon. By Courtesy of Page and Overton's Brewery Ltd.*

Architects: Leonard Chignall & Son, F.I.A.A., M.INST.R.A., M.R.SAN.I. Romford.
Contractors: Galbraith Bros., Crayford
Telephone: King's Lynn 2293

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WT.18 *Sole Proprietors and Manufacturers* **KERNER-GREENWOOD & CO. LTD., KING'S LYNN, NORFOLK**

# The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CC. May 19th 1961 No. 6157

Published from 'The Builder' House, 4 Catherine-street, Aldwych, London, WC2. Telephones: Temple Bar 6251-4.

Annual subscription rate: £4. Special rate for Students following an approved architectural or technical course: 30s. Single copies (including back numbers, where available, up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

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## Leading Articles

# An Air of Purpose

THE AIR OF PURPOSE discernible at last week's annual general meeting of the Royal Institute of British Architects is much to be welcomed. The proceedings were lengthy—the start was delayed by an hour by the extraordinary general meeting at which members debated at length the old conundrum, the difference in meaning between 'a majority of 4/5ths of those present and voting' and 'a 4/5ths majority of those present and entitled to vote.' The meeting decided on the latter formula, a decision that may make any but the least controversial by-law most difficult to change. Before closing this part of the proceedings, THE PRESIDENT paid a tribute, warmly supported from the floor, to MR. CLEEVE BARR and his constitutional committee for their work on the by-laws.

The observer was impressed by the interest taken by members in the various aspects of the Institute's now very wide field of activity, and by the tenacity of some of the younger membership in holding to their point. About 300 were present—a very different story from the meetings of a few years ago when report and accounts were received with apathy by a handful of press-ganged members. SIR WILLIAM HOLFORD, a fair and firm chairman, realising that the meeting is the one opportunity in the year for the Institute's rank and file member to make his voice heard, gave full rein to those who wished to comment. In the event, most of the committee reports came under review and if some subjects—notably the work of PROFESSOR MATTHEW'S sub-committee on the training of the technician class—occupied a disproportionate amount of time, members thereby at least established the depth of their interest and concern in a matter which is clearly complicated by factors other than those connected with the most efficient means of staffing architectural offices.

Yet for all its sense of purpose, the meeting disclosed an undertone of apprehension on the part of the back-bench members—apprehension that decisions, notably on the question of the possible creation of a 'two-tier' profession, should be taken by Council without reference to the full body of membership. This was shown by the support given to MR. R. D. BUTTERELL'S amendment calling on the Council to communicate the information on which it will base its decision on the technician-class question before any decision be taken. THE PRESIDENT resisted this as being tantamount to a vote of no confidence in the Council, and the amendment after full discussion was withdrawn. The incident was valuable, nevertheless, as pointing to the long road which the Institute has yet to travel in establishing a full relationship of trust and confidence between Council and headquarters and the ordinary member, especially those from the Allied Societies. In this matter members and Allied Societies must do more to help themselves; 300 present at an annual meeting out of a total membership in the UK of 16,000 is hardly good enough when matters affecting the Institute's future are under review. The old grumble that London is so far away carries less weight when one hears that, in con-

nection with the Allied Societies' conference to be held at Leeds on May 27, representation from some of the societies in the north-west is poor in the extreme. No. 66 Portland-place has been criticised for being too remote from the provinces; now, unless they take the chances for mutual discussion of problems offered by headquarters, the Allied Societies will lay themselves open to a charge of standing aside from the quickening of interest and enthusiasm for the architect's place in the national life of which this AGM is such welcome evidence.

## A Stimulating Address

IN THE THOUGHTFUL and constructive address which he gave at the annual general meeting of The Institute of Builders a short time ago SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, touched on a wide variety of subjects, but particularly on three which are of special interest at the present time, namely: housing and urban redevelopment, training, and research. Some extracts from his remarks with reference to these subjects are given on page 962.

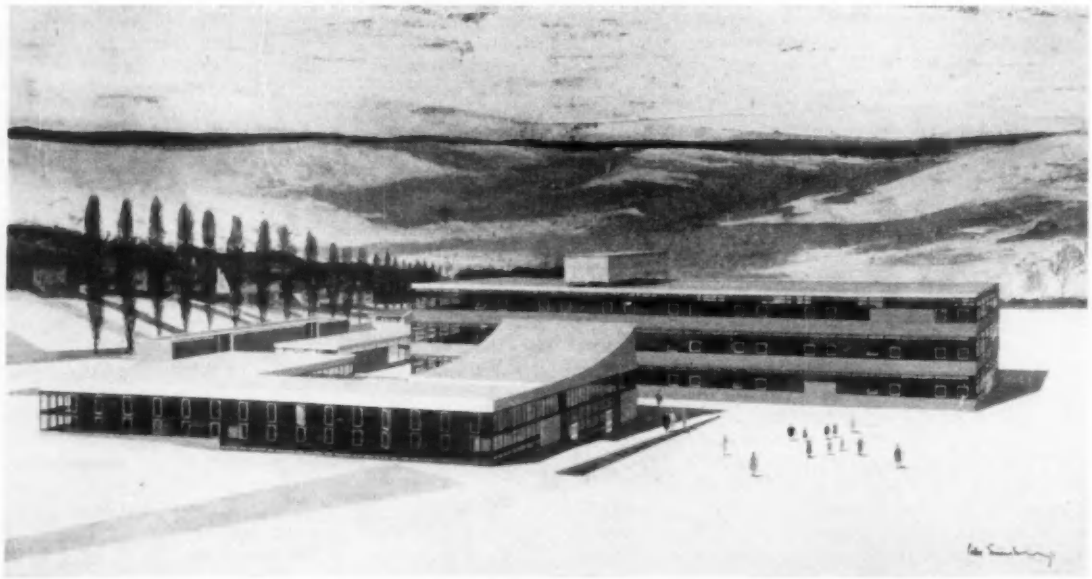
Sir Keith made it clear that the Government is determined 'to keep new development as rigidly separated as possible from the country,' which presumably means the preservation of the Green Belts. At the same time he gave some hope to the house-building industry, which is fast running out of land, and very expensive land at that, by referring to 'great sections of this country where at the moment prices have only risen equivalent to the fall in the value of the £ . . . . areas which are relatively ill-served by transport but no further away from the great cities than the popular area,' and these, he said, 'may well come next.' Precisely what he meant by this is not clear, but it would not be unreasonable to infer that some new towns may be in prospect. If that should be so, an early announcement of the Government's intentions would be welcome to many firms which, as one speaker suggested in question time, may soon find themselves out of business for lack of building land.

Sir Keith's reference to the possibilities of participation by private enterprise in the redevelopment of the 'twilight ring' of obsolescent urban areas was also of special interest, particularly in view of his claim that creeping de-control alone will almost remove rent control, even if there be no prior intervention of any government, in a matter of ten or fifteen years. But it was clear from one of his answers at question time that what he envisaged was the acquisition by private enterprise, over the years, of rent-controlled property and not its compulsory purchase by local authorities for private redevelopment. Enterprising firms, however, may well find opportunities here worth exploring. Some have done so already.

On the question of training for the building industry, Sir Keith rightly stressed the need for the most attractive training schemes if the industry is to get its share of university, grammar school and good modern and technical secondary school output. It is unfortunate that in many parts of the country education authorities should be curtailing classes at a time when there is an increasing need for them. In any case, there should be no curtailment without consultation with the industry.

As to research, Sir Keith claimed that it was not enough for a firm to restrict this to its own work, particularly by its own people to its own products or processes, nor even to limit it to the manufacturing or the constructing or the designing side of an industry; and he suggested that what was needed was the 'invasion of an entire industry by inspired and sceptical boffins,' who would work for five or ten years and then produce not so much solutions as a series of comments showing where solutions are specifically needed. Co-operation and finance would be the difficulties here, but they need not be insuperable. The first task would be to set up a central body to collate and disseminate information upon the research already being carried out which, as MR. FREDERICK SNOW pointed out in a letter in our issue for April 28, is wasteful in its duplication and overlapping. Perhaps Sir Keith, to whom the whole industry is indebted for an unusually stimulating and forthright address, could help by his influence to get things going.

LONGFIELD SECONDARY SCHOOL, KENT, *by Elie Mayorcas in collaboration with E. T. Ashley Smith, FRIBA, Kent County Architect, which is in the RA Exhibition and was captioned incorrectly in a previous issue*



# Notes of the Week

## Birth of a New Society ; Urban Renewal ; A Cyprus Tragedy ; Gimmicks in Illumination ; British Sculptors' Report

SIR WILLIAM HOLFORD'S view that 'this is one of the most welcome occasions I have attended' must have been shared by every member and guest present at the dinner, held in Preston on Friday last, to mark the inauguration of the newest Allied Society. This is the North Lancashire Society of Architects—a body which, thanks to the patient work of a group of members of whom Alport Williams, George Grenfell Baines and C. H. Simmons may particularly be mentioned, has been built on the foundation of the Preston, Blackburn and District Society, formerly a branch of the Manchester Society.

Surely no allied society has ever arrived amid more good-will or been imbued with greater sense of mission? Allied to it will be two chapters—the Blackburn and Fylde Architectural Society, founded in 1902, and the newly-formed Lancaster and Westmorland Society, which jointly add a membership of 130 to North Lancashire's 200. Preston, for reasons not unconnected with the County Architect's department and Mr. Grenfell Baines' office, enjoys a reputation for liveliness—a quality which seems to be inherent in the Preston air for (as Mr. Simmons, the President, recounted) the Preston Society as long ago as 1914 was protesting against an early form of builders' package deal and was badgering local MPs to introduce into Parliament an architects' registration bill. The Society had also broken new ground during Mr. Noel Hill's presidency by inviting engineers, quantity surveyors and furniture designers to becoming subscribing members—thus following the present-day belief that the architect is no longer alone in his profession but forms part of a team. Certainly these members make a full contribution to the Society's progress.

* * *

COVERING A PART OF THE COUNTRY where so much building work is going forward, the new Society, with its added prestige, has a full-size job to do—particularly in bringing the building public into closer touch with architecture and architects. The Society's public relations side is well-developed and has the question of publicity for architecture by every means, especially sound and TV broadcasts, well in mind. The gesture made at the dinner of subscribing £50 to the funds of the proposed university near Lancaster is a far-seeing one. North Lancs need, in fact, have only one fear—that the bulk of membership should feel inclined to sit back and rely on the efforts of a few particularly bright stars. As Mr. Haydn Smith reminded the company at dinner, each member must ask 'what am I doing for my Society?' If members ask themselves that question sufficiently frequently, nothing will hold back this, the newest of the RIBA Allied Societies, from a bright future in which every architect wishes it well.

### Urban Renewal

THE PROBLEM of urban renewal was succinctly interpreted by Sir Hugh Casson on May 8 as a question of getting effective space without wasting it, and effective compactness without congestion, to merge the old in the new and to revitalise the heart of a city. Sir Hugh was opening Urban Renewal Week at Queen's University, Belfast, which city he impartially described as one in a world of dying cities, adding that although it was no beauty spot, it had possibilities which it could not afford any longer to let rest without action. Dr. Michael Grant, vice-chancellor of Queen's, referred to 'the scandalous disgrace of our cities,' remarking on the outward-spreading waves of suburban development which left in their wake an ever-thickening band of depressed property.

Speaking later at the same university, Mr. Lionel Brett said that basically cities in Britain suffered the common defects of central congestion and suburban sprawl. He thought that our damp and dismal climate produced a greater awareness of decay, inferring that a decaying city was all right in a warm climate where the light was good. Waiting for a 'bus in the rain is certainly a depressing experience, but the criteria in the problem of the twilight areas should be based on more, we think, than an owl's eye view through the drizzle.

### A Cyprus Tragedy

A PRACTICAL STEP which should meet with the support of every architect has been taken to assist the widow and family of Mr. Peter Gray, ARIBA, who was murdered in Cyprus a fortnight after landing to take up a post with Messrs. Tripe and Wakeham. Mr. John Macalpine, ARIBA, friend and past employer of the late Mr. Gray, has launched an appeal fund for Mr. Gray's widow and family. Donations should be sent to the Peter Gray Fund, c/o the ABS, 66 Portland-place, London, W1. This is an appeal which should be solidly supported by the profession.

### Gimmicks in Illumination

IT HAS OFTEN BEEN SAID of modern buildings that they 'show up to their best advantage by night.' Such criticism, often rightly construed as derogatory and facetious, sometimes reflects the role of the illumination expert in his gimmicky ingenuity to express what does not, in reality, exist—the realm of the calculated lie, 'Son et Lumière,' of course, excepted. The current issue of the 'International Lighting Review' appears to illustrate this point in at least two of the buildings shown, though in the main this splendidly produced journal describes lighting, not only as a means of providing a necessity by night, but as a cleverly used method of enhancing natural beauty and well-designed structures, emphasising nuances of colour and shape not otherwise seen.

There is an excellent description by Professor Arne Jacobsen of the basic principles of his design of the Royal SAS Hotel at Copenhagen, followed by a contribution on the lighting of the 22-storey building. Other contributions include a description of the Musical Water and Light Theatre at Ciudad Trujillo in the Dominican Republic; illustrations of the lighting of three newly built bridges spanning the Rhine in West Germany, lighted mostly with sodium vapour lamps; and articles on the lighting systems in a New York restaurant, a Rotterdam post office, and domestic installations in Germany and Holland.

### British Sculptors' Report

THE ANNUAL REPORT of the Royal Society of British Sculptors for 1960 not only records the events of the year but contains a variety of features of literary and pictorial interest. The latter include photographs of several examples of members' work well reproduced on art paper, varying in character from the imaginative Portland stone panel, 'The Dance,' by Professor A. H. Gerrard (awarded the RBS Silver Medal for the best work of the year 1960), to the realistic statue of David Lloyd George, by Michael Rizzello, at the Welsh National Memorial, Cardiff.

The Reynolds-Stephens Memorial Lecture on 'Sculpture and Modelling in Victorian Architecture,' by Mr. Charles Handley-Read, the substance of which is given, is a well-informed survey of a period in which there is now a reviving interest. Appropriately, although the work lies just beyond the date of the old Queen's death, an illustration is included of the remarkable *Art-Nouveauish* decorations carried out by Reynolds-Stephens himself in the church of St. Mary at Great Warley, Essex, the architect of which was that early modernist, Harrison Townsend.

The report, which includes a Roll of Members as at February, 1961, is issued from 6 Queen-square, London, WC1.

## Poet's Corner

GUILDFORD CATHEDRAL was consecrated by the Archbishop of Canterbury on Wednesday, in the presence of Her Majesty the Queen and other members of the Royal Family.

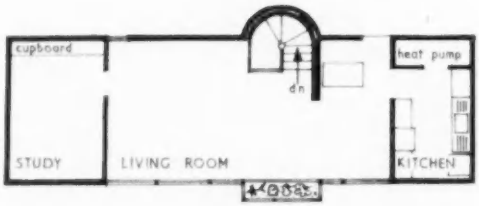
Through years of conflict stark and still
It stood, a fragment on Stag Hill,
  A chancel arch that towered high,
  Forlorn and gaping to the sky.
Yet in that sad, deserted shell
The light of hope did ever dwell;
  Till, in the year of 'fifty-two,
  Building at last began anew.
Brick on brick and stone on stone
Slowly the lofty fane has grown,
  Till now, with craftsmanship replete,
  Nave, choir and transepts stand complete
With high arcade and vaulted bays
To swell the note of prayer and praise.

ANON.

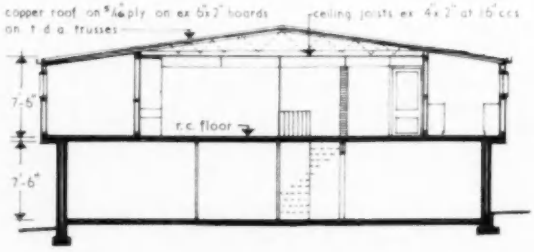
# RIBA Bronze Medal House, Birkenhead

NELSON & PARKER, AA/RIBA, architects
J. L. RAWSTHORNE, LTD., general contractors

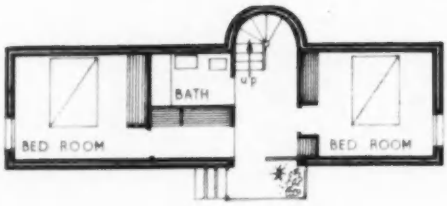
*rear elevation and entrance to living room*



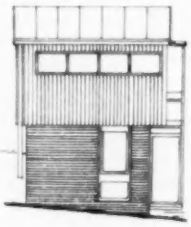

FIRST FLOOR



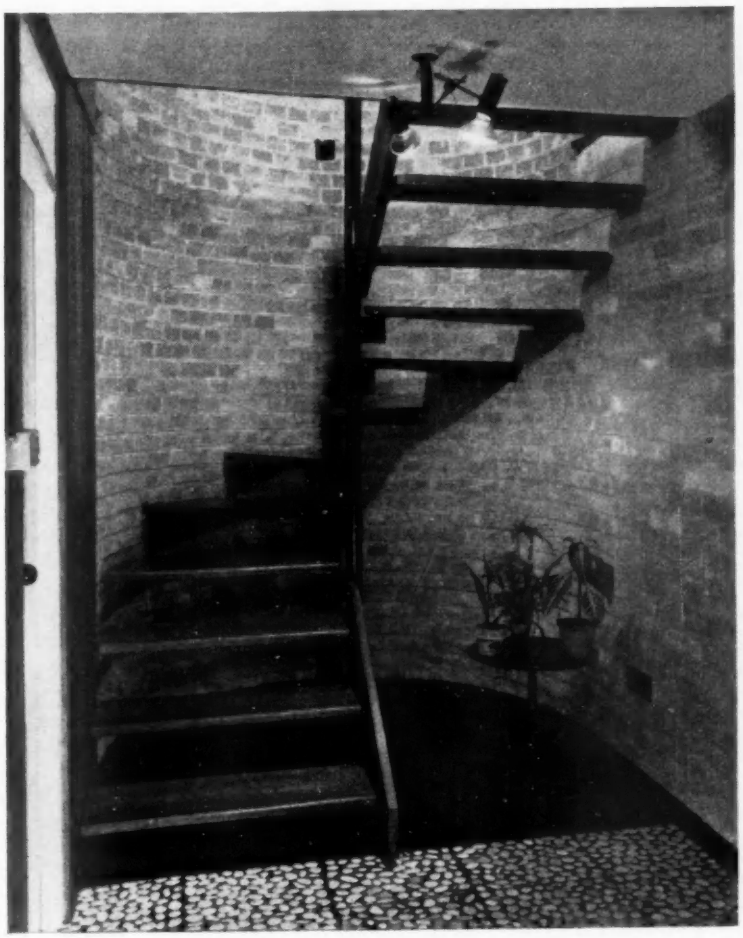

LONGITUDINAL SECTION
Scale: 1 in. = 16 ft.




GROUND FLOOR
Scale: 1 in. = 16 ft.



NORTH-WEST ELEVATION



*circular staircase at ground floor*

THE RIBA BRONZE MEDAL for the area of Liverpool Architectural Society, 1957-59, was awarded to the architects of the 'Brown House,' Eleanor-road, Bidston, Birkenhead.

The bedrooms are placed at ground floor and built into the steeply sloping site. Living accommodation, at first floor, exceeds the bedroom floor area and cantilevers out on all sides. The living room commands a fine view over the tops of trees to the Fender Valley.

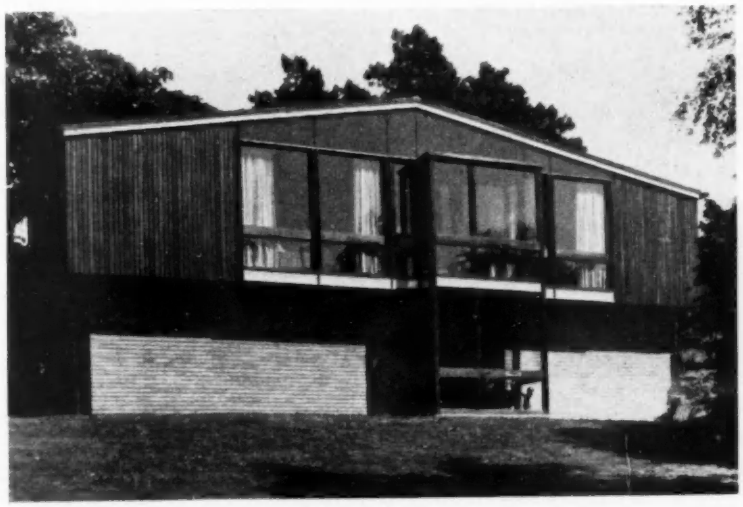
Construction at ground floor is cavity brickwork with Dunbrik No. 5 grey facings, and foamed slag block inner leaf. Partitions are CLS hemlock stud and timber of plasterboard.

The first floor has an r.c. in situ slab, and the whole structure above this level is of timber. The study and kitchen form 'box stanchions' supporting the 27 ft. 6 in. trusses which span the living room. Walls are 4 in. x 2 in. CLS hemlock, 5/16 in. ply sheathing, exterior cladding of utile t & g oiled boarding, and internal lining of foil-backed plasterboard. Roofing is copper on Stramit boards. Windows are of utile with Plyglass double-glazing. The living room ceiling is ¼ in. beech ply, and the study ceiling is knotty pine boarding. Heating is electric underfloor.

**sub-contractors & suppliers:**

*Bricks & slag blocks:* A. R. Ball & Co. Ltd.; *marble tiles:* R. A. Davidson; *design & supply of reinforcement:* Truscon Ltd.; *thermoplastic tiles:* Marley Tile Co. Ltd.; *trusses & roofing:* Broderick Insulated Structures Ltd.; *Alufloor:* R. W. Brooke & Co. Ltd.; *underfloor heating:* Calidec Ltd.; *thermostats:* Honeywell Controls Ltd.; *heat pump:* Ferranti Ltd.; *kitchen fittings:* Wrighton 'Californian'; *steel sinks:* Leisure Kitchen Equipment Ltd.; *waste disposal unit:* Haigh 'Tweeny-de-Luxe'; *ironmongery:* Dryad Ltd.; *curtain track:* Silent Gliss Ltd.; *sanitary fittings:* Adamsez Ltd.; *tops, etc.:* Barking Brassware Co. Ltd.

*main, south-west elevation*



*dining recess*

# The North Lancashire Society of Architects

## Successful Inaugural Dinner

A HIGHLY SUCCESSFUL DINNER to mark the inauguration of the new North Lancashire Society of Architects (which is the successor of the Preston, Blackburn and District Society of Architects) was held at the Barton Grange Hotel, near Preston, on Friday last, May 12.

MR. C. H. SIMMONS (President) proposing a toast to the old Society, said how cheered, honoured and encouraged they were to have Sir William Holford with them to launch the new society into orbit round No. 66 Portland-place.

'It is on a regretful note that tonight the old Society is to take leave of the Manchester Society of Architects who over the past 31 years have been most tolerant and helpful. We shall retain at the centre the same membership as the old Preston, Blackburn and District Society but will also be helped by two chapters—in the west the Blackpool and Fylde Architectural Society, founded in 1902 and with a current membership of 86; and in the north, based on Lancaster, the new Lancaster and Westmorland Society with its newly elected President Mr. Charles Pearson, and a membership of 51.'

The President then offered some amusing historical references based on research by Derby Fazackerley and Frank Hewitt—one of which described action taken by the old society in 1913 to counter a proposal by local master builders to abolish sole tendering in favour of separate tenders for each trade, a step which could have led to the banishment of architects; and another which detailed an approach to local members of Parliament urging the introduction of an architects' registration Bill. Of the 12 who attended the first meeting Mr. Fred Howarth, now in his 80s, was sole survivor. In Mr. Noel Hill's term as President from 1951 membership rose from 26 to 111; it was now over 200, said Mr. Simmons. Mr. Hill, during his term of office, was intrumental in amending the constitution to admit subscribing members — quantity surveyors, engineers and furniture designers.

'We can be very proud of the achievement of the Preston, Blackburn and District Society,' concluded Mr. Simmons; 'they can never be forgotten, and it is with enthusiasm that I propose this toast.'

### RIBA President's Tribute

The health of the new society was proposed by SIR WILLIAM HOLFORD, ARA, PRIBA, who complimented it on the manner in which it had broken away, 'with a simplicity unknown in politics,' from the Manchester Society and had yet retained co-operation and friendship. He liked the new crest—the RIBA lions on a bed of red Lancastrian roses—for 'the lions look as though they have some teeth, and those are something every Allied Society should have.

'I should like to pay a special tribute to those who have helped to bring this, the newest of the RIBA Allied Societies, into being,' continued Sir William, 'particularly Mr. Simmons, Mr. George Grenfell Baines and Mr. Alport Williams. The Manchester Society, too, has shown great friendliness and has given much help. Nor must we forget the old society which, I was delighted to hear, was tackling as long ago as 1913-14 the problem of the package deal and registration of architects. Today the Society is still in the forefront of action in that some of its members are developing their offices as teams of designers and consultants—thereby providing at least part of the answer to those unintelligent package deals which are handed out to some unwary clients.'

Supporting the toast, MR. HAYDN SMITH, president-elect of the Manchester Society, said he brought with him the warmest and most sincere wishes from the Manchester Society. Not only was the new Society large and independent but the initiative and imagination displayed in such affairs as the annual symposium at Alston Hall and in public relations activities were acknowledged.

'But this is not the beginning nor the end of any phase in your affairs but part of a development which must continue through you, the members,' said Mr. Smith. 'For a society's strength is in the strength of its members. This society cannot flourish without you. You cannot say with impunity "What is my Society doing for me?" You can only ask "What am I doing for my Society?" Allied Societies must do things for themselves without waiting for a push from the RIBA.'

The North Lancashire Society had a unique opportunity to influence education, for the new University was to be founded near Lancaster in their area, and architects must participate more effectively and positively in the organisation of advanced education, said Mr. Haydn Smith, who continued:

'I firmly believe in regional collaboration. Your Society is joining with the Liverpool Architectural Society and the MSA in certain aspects of public relations work, notably exhibitions for regional circulation and a "Sketch Design" film to interest TV producers in presenting architecture in a more interesting way. This could be extended to other spheres with a saving in effort and money.'

In proposing the health of the Guests, MR. GEORGE GRENFELL BAINES, OBE, said that the moral that could be drawn from the birth of the new society was that what Manchester was thinking today, Preston was doing tomorrow!

'I should wish,' said Mr. Baines, 'to pay special tribute to Alport Williams whose energy and tenacity of purpose have so largely been responsible for the new Society. We are now an Allied Society in our own right, the third leg of a triumvirate of societies with Manchester and Liverpool that can do much for architecture in the north-west.'

MR. COLIN BOYNE, editor of 'The Architects' Journal,' responding, said that there was room for a society that not only criticised the work of others but also occasionally criticised itself.

Guests present included Mr. Gordon Ricketts (secretary RIBA), Mr. Gontran Goulden, Mr. Malcolm Gilling (president, Liverpool Society of Architects), Mr. George Mansell (editor, 'Architect and Building News'), and Mr. Ian M. Leslie (editor, 'The Builder'). The admirable arrangements for the dinner were made by Mr. F. A. Hewitt, ARIBA, hon. secretary, and Mr. E. D. Colley was toastmaster.

During the evening £50 from society funds were voted to the proposed new University near Lancaster.

SOME OF THE FOUNDERS *of the North Lancashire Society of Architects, photographed at the Inaugural Dinner. Left to right: Tom Mellor, C. H. Simmons (President), F. A. Hewitt (hon. Secretary), Sir William Holford, PRIBA (guest of honour), G. R. Ricketts (Secretary RIBA), G. Grenfell Baines and Noel Hill (photo: Lancashire Evening Post). Mr. R. Alport Williams is not in the group*

**Competition Result**

# Development of Area 71, Harlow New Town

*Promoters:* HARLOW DEVELOPMENT CORPORATION
*Assessors:* H. T. CADBURY-BROWN and VICTOR HAMNETT
*Winner:* MICHAEL NEYLAN, ARIBA

OF THE 41 COMPETITION ENTRIES for the development of Area 71, Harlow New Town, three designs were premiated and three were commended. First Prize (No. 29): MICHAEL NEYLAN, ARIBA. Second Prize (No. 20): GEOFFREY J. DARKE, ARIBA, DIP.ARCH, and ROBERT BLOM van ASSENDELFT. Third Prize (No. 32): DAVID CROGHAN, MC, ARIBA, in association with DAVID DAVIES, MA, ARIBA; consulting quantity surveyor: Victor Bugg, ARICS. Commended (No. 27): FRANCIS J. BANCROFT, ARIBA, DIP.ARCH, and PHILIP ROGERS. Commended (No. 41): ALAN GOODMAN, ARIBA, DIP.ARCH, and A. J. SHORT, ARIBA, AA.DIP. Commended (No. 39): M. R. CRUX, ARIBA, MSIA.

## The Assessor's Report

THE GENERAL CONDITIONS of the competition stated that one of the Corporation's objects in promoting the competition, and in selecting an interesting and undulating site for the purpose was to afford facilities for re-thinking on such questions as layout and house design. Competitors were invited to offer new conceptions of the use and furnishing of living space outside the normal restriction of accepted regulations whilst still safeguarding the intention of these standards. In these aims the Corporation was supported by the Ministry of Housing and Local Government.

The programme was to design a housing area of approximately 300 dwellings, a size comparable to that of other housing areas in Harlow and which has by experience been found to be the most satisfactory. But unlike most of the other housing areas the site provided was more varied in contour and more particular character. Implicit in the programme were two dominant factors: freedom, as far as possible, from inhibiting regulations and the problem of the car in a housing area (a minimum of one car for each household).

The greatest division in the layout of the designs was between those which operated almost completely within existing practice and regulations and those which did not. There were many good examples of the former but, there being implied in the competition an opportunity for fresh thinking, these designs, however good and acceptable in themselves, were at a disadvantage when compared with others showing a more original approach.

A further division in the layout proposals was between those who exploited the potential drama of the site, producing strong and rather centralised schemes (examples would be those judged first and third) and those who chose an even, undramatic disposition of buildings (an example would be the scheme judged second). It was felt that both these approaches could be justified, the first particularly as the nature of the site allowed a sense of drama which in a less prominent position would appear forced.

Some competitors designed a Radburn type layout. Generally the fault with these was that the space between the houses was not large enough. Some living rooms were facing each other across only 30 ft. of space.

MOTOR VEHICLES (PRIVATE): Here too there were clear divisions between competitors who planned: (a) Centralised parking with pedestrian ways out towards houses; (b) the reverse, perimeter parking with pedestrian ways inwards; (c) road access to all houses which have their own garage or car port; (d) small spur roads or 'ways' shared by pedestrians and cars, (e) complete segregation, even bridges for pedestrians within the site.

Much depends on the particular handling of the idea. (a) and (b) preserve the house from the car and traffic and have great possibilities especially if the distance to the house is not too great and can be under cover. (c) Is a system about which a lot is already known. (d) Has possible application providing the sharing of the way between pedestrian and car is very limited in area. It was felt that it would not be satisfactory if the area included more than three or four houses sharing a communal garage approach within which people would feel a common obligation to each other's safety.

HOUSES: Considerable thought has been given by competitors to house design especially to the problem of single storey 'patio' houses with occasional

*Winning Design (No. 29) by Michael Neylan, ARIBA. View from Southern-way between two blocks*

first and second floor flats, sometimes over pedestrian ways but with careful consideration of overlooking. There seemed a general desire to allow the smaller bedrooms to open up into each other or on to circulation space, to use the garden as an outdoor living room and to provide for washing machines either in the bathroom or kitchen. The use of the enclosed-courtyard plan leads to a closely integrated cellular pattern of development. This is a departure from the more familiar long terrace. It is a useful alternative if it confers direct benefits socially as well as practically and aesthetically.

APPEARANCE: Insofar as it is possible to generalise, the most dominant aesthetic desire seemed to be towards a saw tooth roof line. This technique gives perhaps more identification to an individual house but, used in long rows, ends in considerable restlessness. In terrace form one of its main advantages seems to be to admit high light into the centre of the house.

WINNING DESIGN [No. 29]: This design has a bold and imaginative conception and we have great confidence in recommending it as the winner. Basically it provides an efficient vehicular circulation system separated from pedestrians. It exploits the shape and contours of the site to form a raised podium for pedestrians with traffic circulation and car parking below, and by this means it removes the parked car from the street thus gaining visually and increasing safety. At the same time both the car and the pedestrian are at the centre of the layout. This podium or central core is in the form of an irregular crescent and bounded by flats and maisonette blocks. From it radiate like fingers the pedestrian paths giving access on either side to enclosed courtyard houses with green wedges of open space between them.

As his objective the author introduces his report with the following statement: 'The intention underlying this scheme is to attempt to group a quantity of individual units, necessarily similar in importance, size and standards of performance, into a whole which from the outside is a recognisable and definite place and from the inside has an immediately comprehensible structure.'

This objective he has certainly achieved and in addition in the design of his basic house plan he has provided an arrangement which should be very satisfactory. We would, however, like to make the following comments on this design: It is noted that the houses are deficient by six from the stipulated minimum. However, it is considered that this should not invalidate the scheme, particularly since this total accommodation is obtained without the use of multistorey building in the orthodox sense. The covered service road is considered too low at 12 ft. and would require a further 6 in. clearance for fire or refuse vehicles.

The bathroom/laundry is a good innovation which leads, however, to a complicated sliding door system to ensure that the w.c. compartment opens from a ventilated corridor. In its present arrangement it seems unsatisfactory.

The flexibility in the planning is made available to a large extent by the adoption of electric underfloor background heating with electric 'topping up' and electric space heating separately metered. This scheme would seemingly lend itself to a centralised system of heating throughout the main area of the housing.

COST: The competitor's estimate of cost amounts to £537,500 for 264 dwellings. We consider that the proportion of the cost attributable to the houses is low but note that £62,500 has been included in the estimate for the central podium and the provision of garages, etc.

DESIGN PLACED SECOND [No. 20, GEOFFREY J. DARKE, ARIBA, DIP.ARCH, and ROBERT BLOM van ASSENDELFT]: This scheme, also supported by a very good report, is one of great quality. From the human aspect the author's aims were that: 'From the development there should emerge a comprehensible pattern as much intelligible from the outer landscape of the road and to the other parts of the town as from the inside of the development itself.'

The scheme is one which has been worked out in detail and has great value as a studied answer to the problem set in the competition. Like the winner, ideas inherent in it have wider application and the assessors hope that an opportunity might be made to realise it. The standard of design is consistently high and we particularly commend the house plans, the north-south pedestrian way arrangement both as a social and visual entity, and the direct and economic traffic and pedestrian control.

In criticism of the layout, however, it was felt that people would be drawn to the outside car access roads and that the central spine pedestrian way would become somewhat atrophied.

DESIGN PLACED THIRD [No. 32, DAVID CROGHAN, MA, ARIBA, in association with DAVID DAVIES, MA, ARIBA]. A geometrical layout based on a unit formed from four houses. The planning of this small group was most successful giving adjacent garden courts at ground floor level and living rooms and large roof terraces at first floor level where privacy was more complete.

The main layout developed from these groups of houses is in the nature of a level platform with three large garage spaces beneath the houses where the contours permit. The perimeter of this terrace is marked by towers containing one and two room flats. To the west these towers become separated from the terrace and extend into the corner of the site. It was felt that this was a courageous use of the site and that the basic house designs were good especially as a social unit. The very high climb to the top floor flats was not particularly satisfactory and we felt that the rather narrow passages traversing the site from east to west would need some break to prevent a clear view down them. Planting or screens in the wider north-south ways might be sufficient.

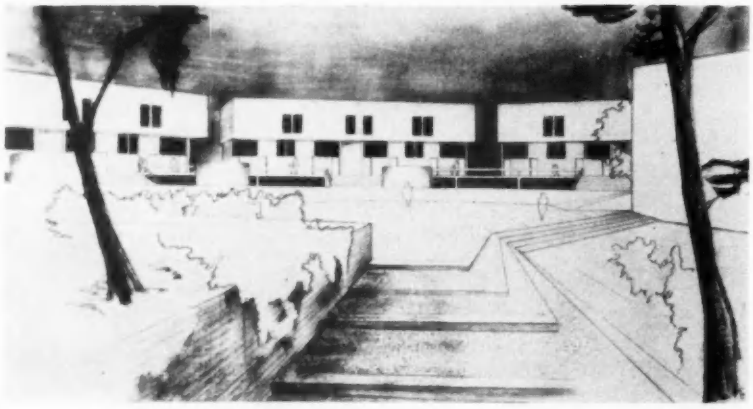
It is considered that the competitor's assessment of the cost of the houses may be somewhat low and that economy could be effected by better grouping of the underground car parking space.

COMMENDED DESIGN [No. 27, FRANCIS J. BANCROFT, ARIBA, DIP.ARCH, and PHILIP ROGERS]. This was one of the most imaginative and attractive schemes submitted, but it was felt that the very close integration of people such as occurs in the main 'squares' would demand a relationship more akin to a close collegiate life rather than a group of relatively disassociated families. The author is commended particularly in the demonstration in his design of the objectives stated.

COMMENDED DESIGN [No. 41, ALAN GOODMAN, ARIBA, DIP.ARCH, and A. J. SHORT, ARIBA, AADIP]. This scheme brings the car to the front door and arranges for this more successfully than other competitors with the same object. There is a remarkable consistency in the handling of the houses and flats in relation to the whole scheme and the author is commended.

COMMENDED DESIGN [No. 39, M. R. CRUX, ARIBA, MSIA]. This is a good and consistent scheme and is commended. The buildings are well related to the site and it is felt that the outer ring of houses would be particularly successful. The repeat unit of four houses from which they are made could produce an agreeable social group. The report shows considerable thought.

*Perspective of winning design (No. 29) by Michael Neylan, ARIBA*



# New Thinking at Harlow

*The Competition Reviewed by* ARTHUR W. KENYON, CBE, FRIBA, DIST. TP

IT IS ALWAYS PLEASANT to review a competition in which the winner is undoubtedly the winner. The task becomes all the more pleasant on a sunny morning in early summer in the setting of Harlow New Town, with the fresh new green of the landscape pointing the freshness and newness and colour of the town itself. It seemed an appropriate occasion to look at the results of this competition dedicated to New Thinking and it was not surprising to find that the entries were pre-eminently the work of young people and young minds.

The assessors had done their work well, not only in the exercise of their professional judgment but also in the thoroughness and care with which they had examined the individual entries and reported on them. Each competitor has at least the satisfaction of an individual appraisal of his scheme, and if one may be allowed the digression of assessing the assessors, they should certainly be awarded top marks for diligence and patience as well, since many of the drawings, including those of the winner, were not entirely clear in their presentation.

### New Thinking in Layout

It was made plain in the conditions governing the competition that the promoters were looking for new thinking in the solution of problems of layout and house design. In the light of this it seems surprising that only 41 entries were submitted. Do architects feel that they have nothing new to offer in this field, or are housing projects of little appeal in these days of full employment? (The competition took place before the new fees for housing were announced.) The assessors point out in their report that competitors who did not meet this challenge of original thought, however good their schemes might otherwise be, were at a disadvantage in competing with entries which offered new ideas. The other principle which obviously and rightly guided the assessors in their selection of Mr. Michael Neylan's entry for winning place was the use he had made of the natural characteristics of the site to produce a 'sense of drama' (the assessors' phrase) in the total concept.

Mr. Naylan is to be congratulated on an imaginative scheme of outstanding merit, particularly in layout. The perspective sketches—no doubt hurriedly produced—do not do the scheme justice, and only a close study of both drawings and report can reveal the full value of the layout and planning. Although the drawings are of a high standard in finish, the site plan is not immediately comprehensible on first viewing, and more than one professional critic was observed combing the $\frac{1}{8}$ in. scale drawings in search of light: even then the section lines were not altogether clear. But these are schoolmasterly quibbles which in no way detract from the quality of the scheme.

### Site Contours Exploited

The steep contours of the site have been exploited to the full to produce a scheme which has a raised podium as its core, with traffic and car parking below and pedestrian lanes radiating out from it. The dwellings are provided in three-storey blocks of maisonettes and flats around the podium, with enclosed courts of houses interspersed with green open space along the radial ways. We are so accustomed to layout with vast lengths of roads servicing the houses that it is refreshing to see in this scheme the minimum of roads, and these concentrated in one spot at the highest level of the site. The radial pedestrian lanes are up to 400 ft. in length on the slope; they are protected from the weather by flat roofs but they have open sides. Four hundred feet seems rather a long track for the postman, the milkman, the dustman and the furniture removal man, but a system of electric trolleys is proposed for heavy goods. Small details of planning, particularly in the maisonettes, will obviously have to be improved, but in the main the planning of both flats and houses is sound.

The assessors point out that the winning scheme falls short of the number of dwellings laid down in the conditions by six, and there may perhaps be a little heartburning on this account, but the high density obtained without recourse to tall blocks fully justifies forgiveness of this minor lapse.

### Schemes Placed Second and Third

The scheme placed second was that of Mr. G. J. Darke and Mr. R. B. van Assendelft. This is a worthy runner-up but is not a real competitor for first place. It has not the attraction of the winner's focal centre and the access roads might become rather monotonous. It has a central pedestrian way, but it is doubtful whether this would be fully used. The scheme is competently worked out in great detail and there is much to commend in the planning. Again, easy reading was not the first virtue of the drawings. For the simple-minded brought up on the A-for-Apple, B-for-Bathroom, K-for-Kitchen principle, it took some time to pick up the A-for-Living, B-for-Dining, H-for-Bathroom, K-for-Store routine.

The third prizewinners, Mr. D. Croghan and Mr. D. Davies, who asked that their quantity surveyor, Mr. V. Bugg, should also be named, submitted a very interesting and ingenious scheme formed of geometrical patterns with garage spaces beneath the houses where the contours allowed. Tower blocks are used in this scheme. The unit of four houses which forms the basis of the layout is clever and very successfully worked out. This scheme must have been near taking second place.

The three schemes commended by the assessors all have individual merit, though perhaps not more so than one or two others which had equally good planning points, not always supported by imaginative ideas on layout. Many of the competitors failed because of lack of skill in the use of levels, and some of the schemes submitted might just as well have been intended for a flat site.

The small portion of the site to the west proved an embarrassment to competitors generally and one felt that it hardly qualified for inclusion in the scheme at all. The winner did not attempt to tie it in with the rest and used it only for the larger houses required by the conditions. It is interesting that a density of 17 to the net acre was obtained very successfully with low buildings.

### A Brave Effort

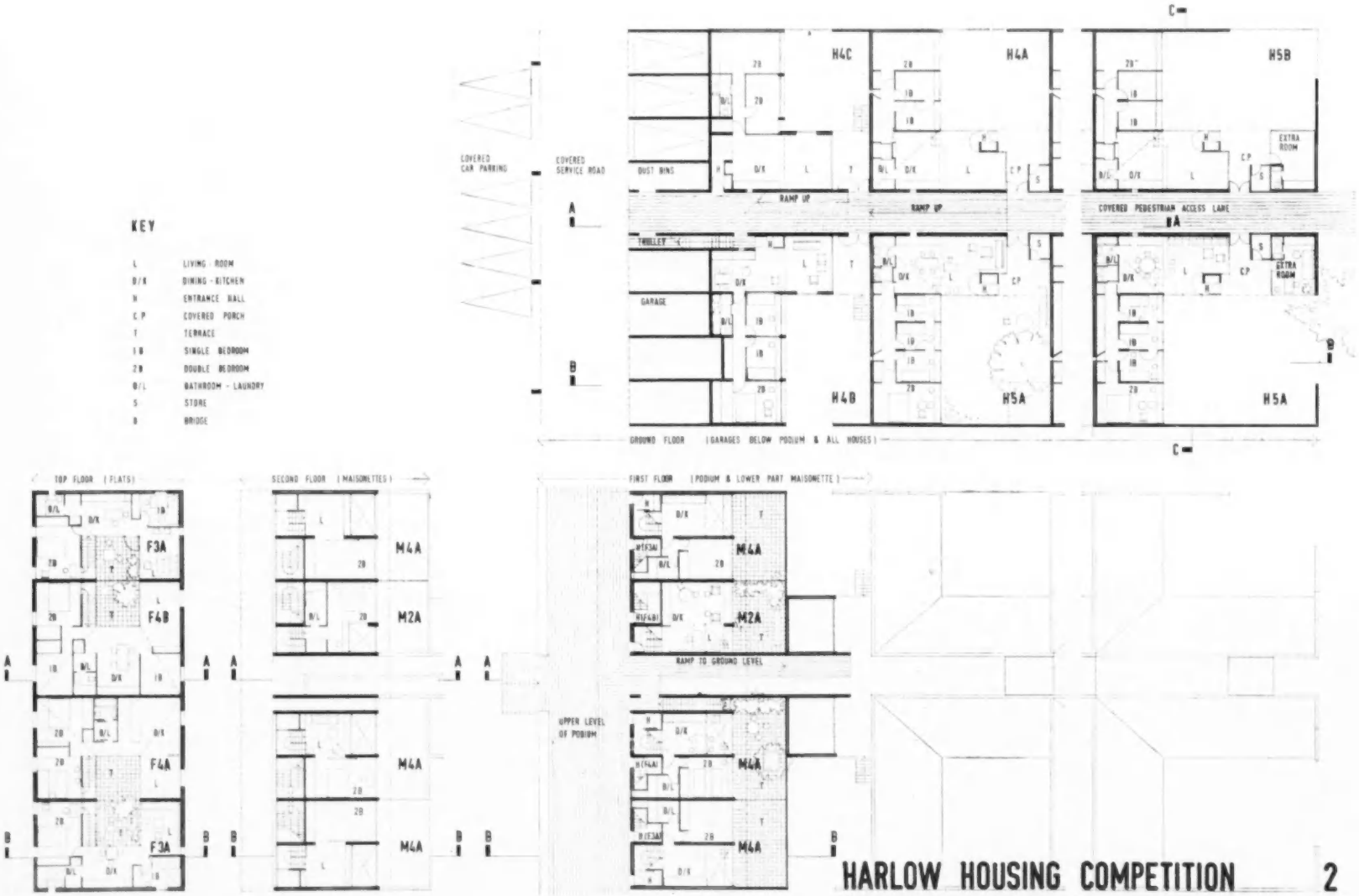
The competition as a whole undoubtedly represented a brave effort by promoters, assessors and many of the competitors to produce for us new solutions of the problem of how best to dispose ourselves and our possessions in homes happily and conveniently related to those of our neighbours. The problem is age-old but the circumstances in which it has to be solved are always new, and the new circumstance which inspired the original thinking in this competition was the motor car as the now dominating factor in domestic planning. The issue of one family/one car was boldly faced, and it is a little frightening to observe that all else virtually resolved round this single condition. Town planning today might almost be described as the art of reconciling men to traffic. Whereas we used to think first in our planning of how people should be related to each other, I suspect this is now becoming second in our thoughts to consideration of how people should be related to their cars.

The motor car has been an insidious intruder into family life and in the early days it was enough to provide individual garages to individual houses as circumstances required. But now each home has a car, however small the home, and road planning to provide a separate car unit to each dwelling is dangerous, expensive and unsightly.

The best layouts were those which grouped all the car-parking together away from the houses and left free planning of houses and flats unencumbered by multiple garage approaches. Some of the solutions were only half-hearted in their approach to segregation, but in future planning of this type of housing layout, I think we shall see a more forthright attack. (The fanciful idea presents itself that this mastery of our lives by the motor car may one day result in our building garage estates with some houses attached.)

The competition was not as fruitful of original thinking in house design as in layout, but perhaps this was to be expected since competitors were still tied in greater or lesser degree to the standards laid down in the Housing Manual. New forms of construction did not figure noticeably, and it was observed with regret that archaic methods of refuse disposal by means of ye olde dustbin still hold sway, even in the New Town of Harlow.

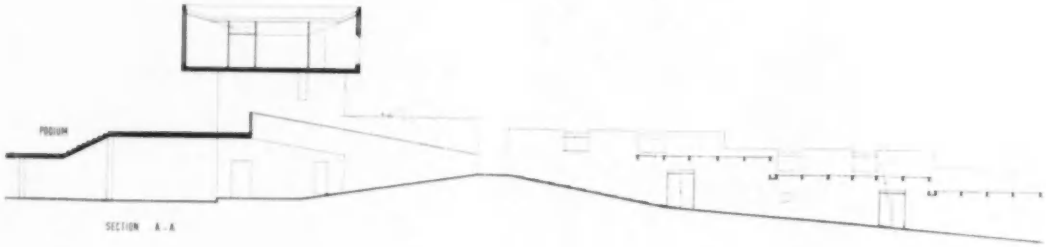
WINNING DESIGN (NO. 29): MICHAEL NEYLAN, ARIBA.



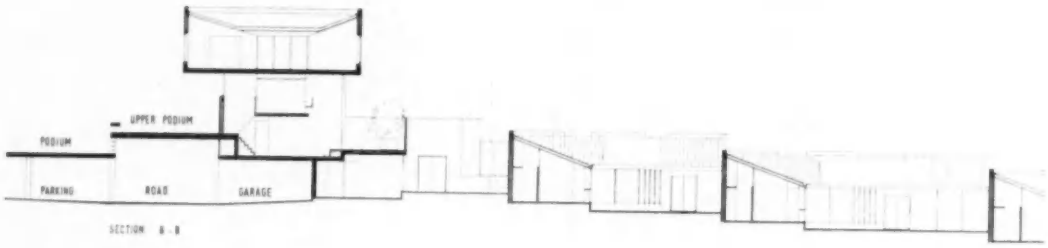

# HARLOW HOUSING COMPETITION 2

PLANS - BLOCKS 2 - 6 & ALL HOUSES

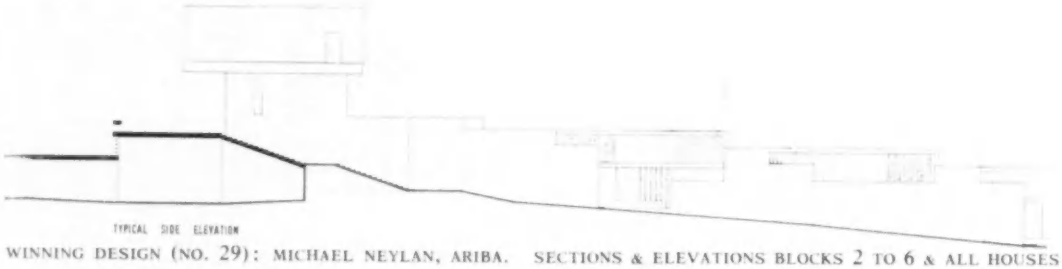
WINNING DESIGN (NO. 29): MICHAEL NEYLAN, ARIBA. PLANS OF BLOCKS 2 TO 6 AND ALL HOUSES. Scale: 1 in. = 32 ft.




SECTION A-A



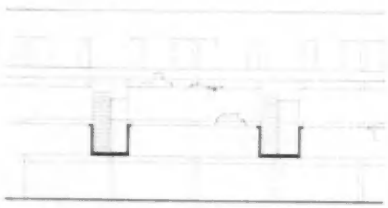

SECTION B-B



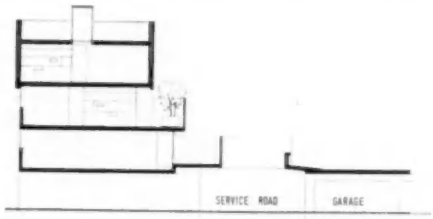
TYPICAL SIDE ELEVATION

WINNING DESIGN (NO. 29): MICHAEL NEYLAN, ARIBA. SECTIONS & ELEVATIONS BLOCKS 2 TO 6 & ALL HOUSES

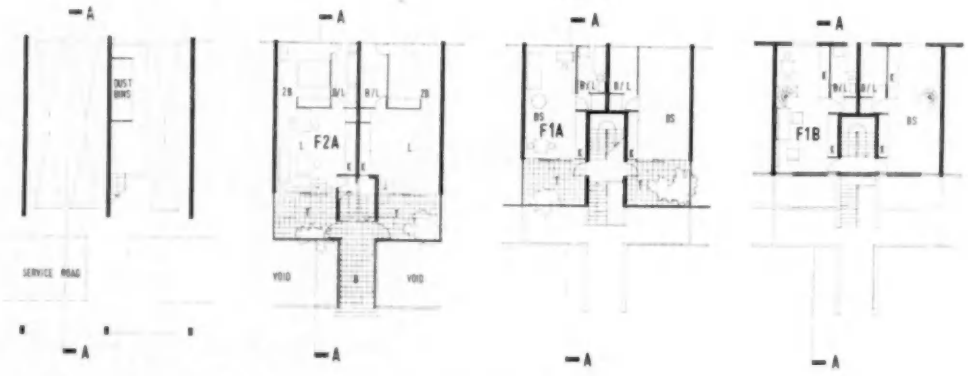
WINNING DESIGN PLANS, SECTION AND ELEVATIONS OF BLOCK 1.



PART S.W. ELEVATION.




SECTION A-A




GROUND LEVEL PLAN

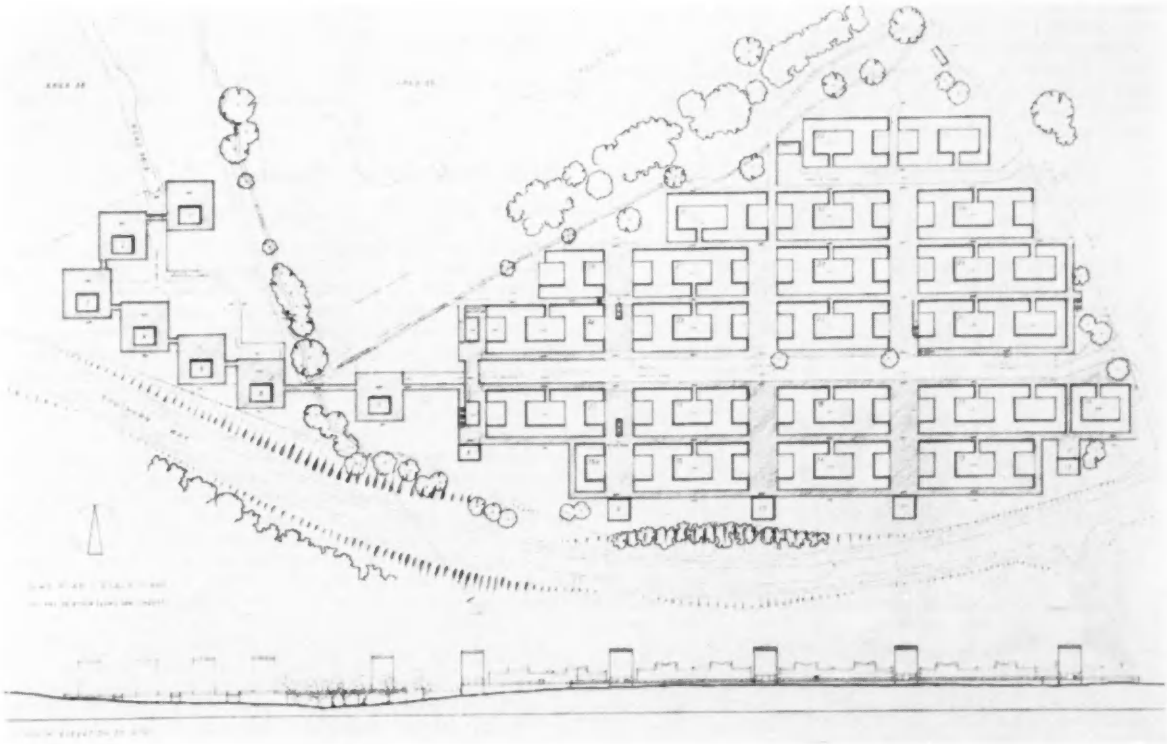
PODIUM LEVEL PLAN

FIRST FLOOR PLAN

SECOND FLOOR PLAN

SECOND PRIZE (NO. 20): GEOFFREY J. DARKE, ARIBA, DIP ARCH, and ROBERT BLOM van ASSENDELFT

THIRD PRIZE (NO. 32): DAVID CROGHAN, MA, ARIBA, in association with DAVID DAVIES, MA, ARIBA



# Letters to the Editor

## Training for Site Management; RBA Summer Exhibition; Snow Hill Station, Birmingham; Practical Training at the Professional Level

SIR,—I find Mr. Tarbotton's contribution to this subject ('The Builder' of May 12) a trifle confused, somewhat irrelevant and not very helpful. It is in fact this sort of 'chip on the shoulder' emotionally-muddled thinking that bedevils the industry today. If I read his letter correctly he contends that building today is no more complex than 50 years ago and infers that there is nobody more suitable than the promoted craftsman to run the largest jobs. He accuses Mr. Harry Vincent and me of social class arrogance and of trying to set up an educational barrier; he considers that team work is the key to the problem and finishes with a red herring on site conditions.

I only intend answering his attack on my 'social class arrogance' by pointing out that in the USSR large building projects are run by college-trained site managers. Education in a democracy also has a habit of setting up its own barriers.

I happen to disagree with Mr. Tarbotton but that does not make me right and him wrong. Time will be the judge of that and I am very glad to hear that a working party is being set up to take this whole matter of training for site management a stage further.

In the same issue as Mr. Tarbotton's letter I was most interested to learn that the London Association of Builders Foremen and Clerks of Works is changing its name to the Institute of Building Site Management, a step taken, they say, because of the need to rethink future requirements in view of the fact that as a result of the 1944 Education Act many of its future members 'may not enter the industry through a craft apprenticeship.' I wish them all success.

PETER TRENCH [OBE, BSC.],
33 Elm Tree-road, NW8.

### RBA Summer Exhibition

SIR,—I read with interest in last week's 'Builder' of Mr. Edward Halliday's suggestion for an architectural exhibition at the Royal Society of British Artists' Summer Exhibition. The space given to architects at the Royal Academy is far too small and architects should welcome this opportunity of showing their work to the public in such a central and easily accessible gallery.

ACANTHUS.

*'My dear chap—show it in the RBA Galleries!'*

### Snow Hill Station, Birmingham

SIR,—I think your readers should be made aware of the fact that the project for the Snow Hill Station development in Birmingham, which was illustrated and described in 'The Builder' of April 28, has been prepared without consultation with the British Transport Commission, who own most of the land, and without the developers having taken the initial step of getting to know the requirements.

It can be left to your readers' discretion to assess the value of such a project and of the contribution its originators have made towards the solution of a major transport problem—since this is an important railway station, used by many thousands of people each day.

Your readers will also, no doubt, form their own opinion as to the desirability of developers and their architects seeking the support of local authorities for projects to be carried out on land owned and used by other people, without first obtaining their consent.

F. F. CURTIS [DR.ING., ARIBA],
British Transport Commission,
London, NW1.

### Practical Training at the Professional Level

SIR,—As a contribution to the activities of Commonwealth Technical Training Week, the Brixton School of Building is arranging a conference for the purpose of considering certain aspects of the training of technologists and professional men. The conference is to take place during the afternoon of Wednesday, May 31, commencing at 2.30 pm.

It is nowadays generally accepted that a professional training should comprise a course of study and a period of practical training in industry or professional practice, and it is to this latter part, the practical training, that the attention of the conference will mainly be directed. Two reasons may particularly be cited for choosing this subject for discussion.

(a) There is considerable interest in the possibilities of joint training of architects, builders, quantity surveyors and structural engineers. The particular requirements of the respective professional bodies create obstacles to any considerable integration of the various courses of study and it is in the field of practical training that opportunities of association may first become practicable.

(b) The National Council for Technological Awards has insisted that the same care should be given to the organisation of training during the industrial periods of Diploma in Technology courses as is given to the organisation of the courses of study pursued during the periods in college. The industrial training panel of the Council has already given special consideration to the problem involved and this has stimulated important training experiments in certain sections of industry.

Although the interests of the conference will primarily be concerned with training for the building industry and the associated professions, it is intended to approach the subject broadly and it is hoped that reference will be made to experience gained in other industries.

D. A. G. REID,
Principal, Brixton School of Building.
Ferndale-road, SW4.

## London County Council

*Proposals for Stepping-up Housing Programme*

THE LONDON COUNTY COUNCIL'S housing committee have examined the practicability of increasing the council's housing output (which is at present over 4,000 new dwellings a year) and are satisfied that by making fuller use of architects in private practice a target of 4,750 new dwellings a year can be fully achieved in about four years' time. This will cost an extra £1½-£2m. a year between 1963 and 1966 and about £3½-£4m. a year extra after 1966 (because it has been assumed in the Development Plan that expenditure on housing would fall after that year).

The committee report that the shortage of architectural staff has, more than any other single factor, limited in recent years the rate of commencements of new dwellings.

This shortage of professional staff must be regarded in the context of a national shortage in a time of great building activity. The salaries and promotion prospects of all LCC staff are constantly under review to enable the Council to compete fairly for such staff as are available.

There are also staff shortages in the valuation department, but if these could be overcome sufficient land could be made available to enable work to start on the erection of about 5,000 dwellings a year over the next four or five years. In fact, land sufficient for the erection of about 26,000 new dwellings in the county is at present in various stages of acquisition and clearance prior to development.

The committee say that every endeavour will be made to increase the use of standard housing blocks, so long as this is consistent with maintaining the Council's high standards of design.

Although their report is concerned with the Council's operations under the Housing Acts, the committee point out the significant contribution to the solution of London's housing problems which is being made by the expanding towns programme.

# Old People's Flatlets, Brighton

CHIEF ARCHITECT'S DEPT, MOHLG, in collaboration with
P. BILLINGTON, ARIBA, AMTPI, chief architect, Brighton CB
RICE & SON LTD., general contractors

*main frontage and communal lounge annexe*

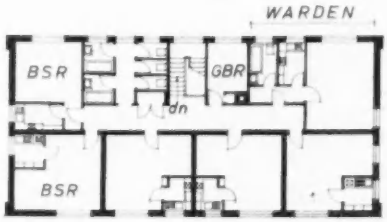
THE FLATLETS are sited in the Albion Hill redevelopment area, among new blocks of 3-, 4-, and 12-storey flats. The block is two-storey, containing 11 bed-sitting rooms, warden's flat, communal lounge, laundry, and a guest bedroom. The design is based on the plan shown in fig. 2 of 'More Flatlets for Old People' published by MoHLG.

The entrance hall and sitting room, together with a cloakroom and small kitchen, form a one-storey annexe to the main block, so that old people living nearby may use the common room without entering the flatlets wing. The common room is larger than usual for a block of this size to cater for those old people from self-contained accommodation in neighbouring flats. Each tenant will have a small locker in the entrance hall for tradesmen's deliveries.

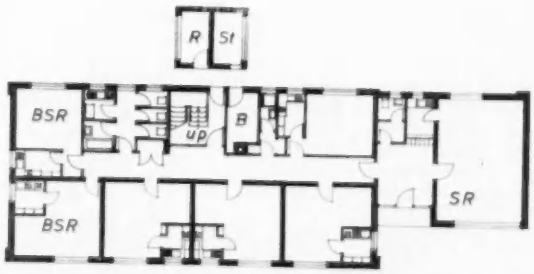
Eight of the eleven bed-sitting rooms have a bed-recess and a separate kitchen, the remaining three are all-purpose rooms with no bed-recess but with a lobby and kitchen. The warden's flat has a large bed-sitting room, kitchen and bathroom. The shared sanitary facilities comprise 6 wcs, 3 baths and a shower. A small laundry with sink and washing machine has been provided on the ground floor and storage cupboards for suitcases and boxes are available on each floor. An oil-fired, low-pressure hot water system is installed.

**sub-contractors & suppliers:**

*Flooring:* Semtex Ltd.; *heating & hot water:* Virgo (Engineers) Ltd.; *electrical:* Hall & Stinson Ltd.; *facing bricks:* Sussex & Dorking Brick Co. Ltd.; *metal windows:* Williams & Williams Ltd.; *ironmongery:* J. B. Bennett & Co. Ltd.; *sanitary fittings:* B. Finch & Co. Ltd.; *kitchen fitments:* Bailey & White Ltd.; *asphalt work:* Southern Asphalte; *copper roofing:* Rice & Son Ltd.; *'Marlith' wood wool slabs:* Hall & Co.




FIRST FLOOR PLAN



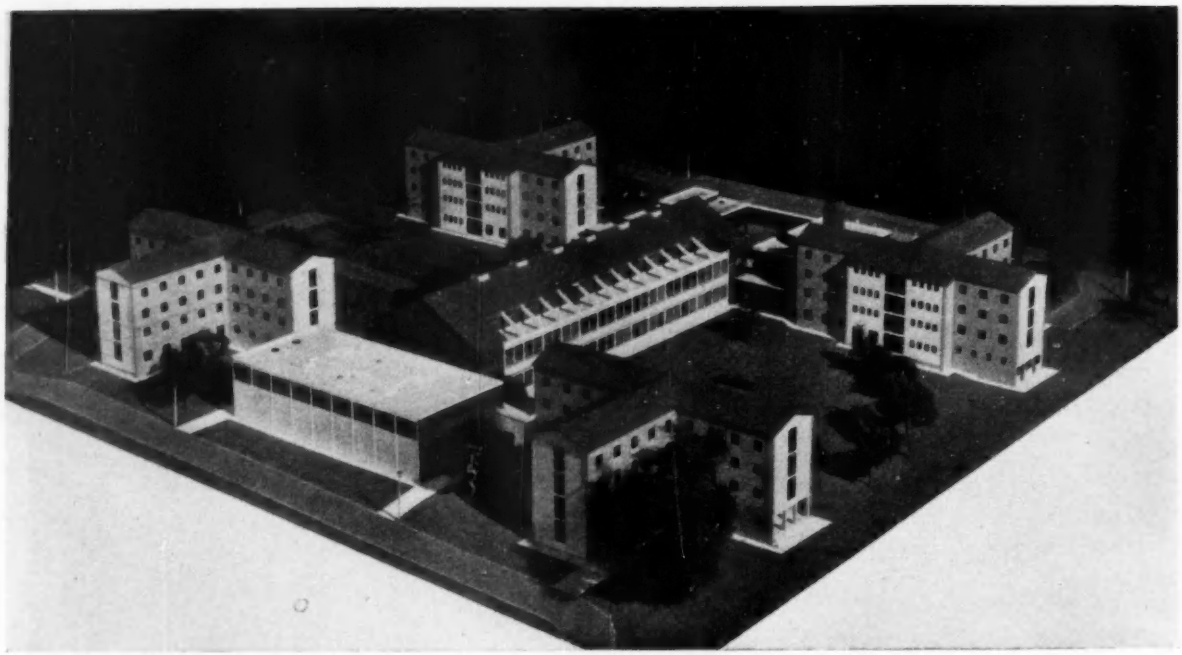

GROUND FLOOR PLAN

# Blundeston Prison, Lowestoft

A. C. HOPKINSON, MA, FRIBA, AMTPI, superintending architect, MoW, in consultation with LT.-COL. S. P. SARTAIN, FRIBA, MVO, director of works, prison commission

F. L. MASON, ARIBA, architect in charge

LAVENDER McMILLAN (CONTRACTORS) LTD., general contractors



*dining and assembly blocks between T-shaped cell blocks*

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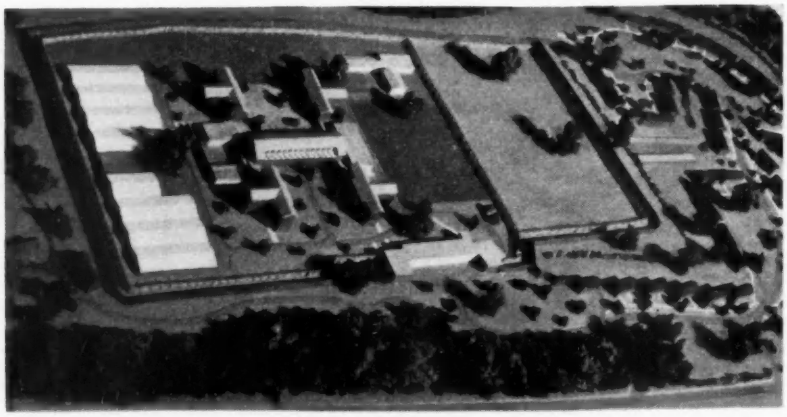

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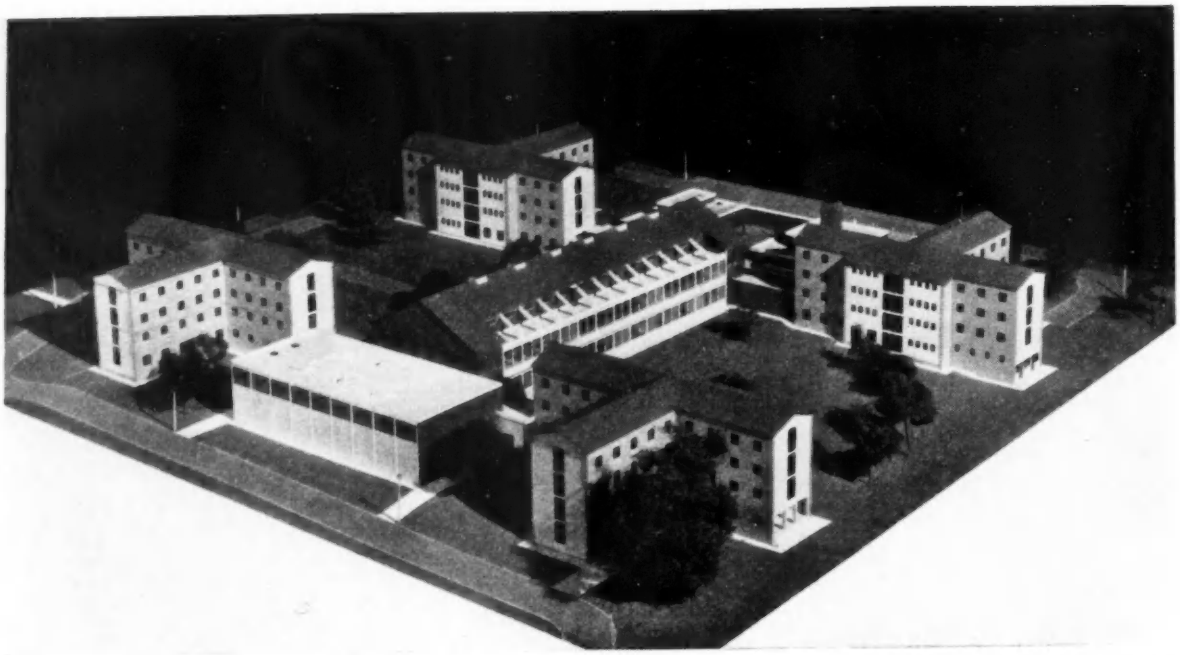
# Blundeston Prison, Lowestoft

A. C. HOPKINSON, MA, FRIBA, AMTPI, superintending architect, MoW, in consultation with LT.-COL. S. P. SARTAIN, FRIBA, MVO, director of works, prison commission

F. L. MASON, ARIBA, architect in charge

LAVENDER McMILLAN (CONTRACTORS) LTD., general contractors



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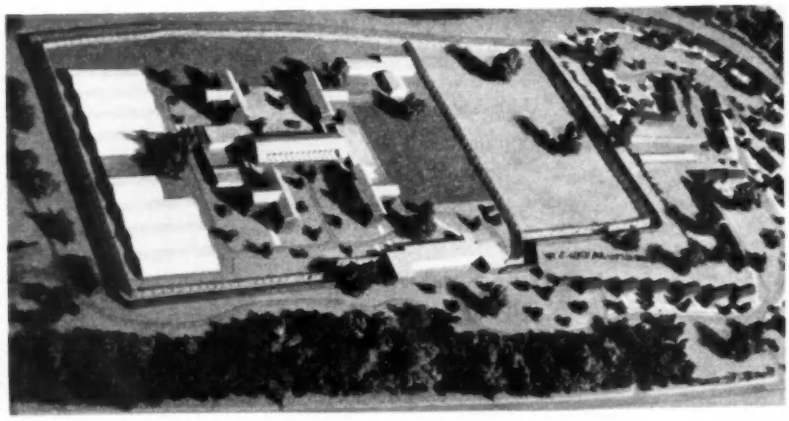

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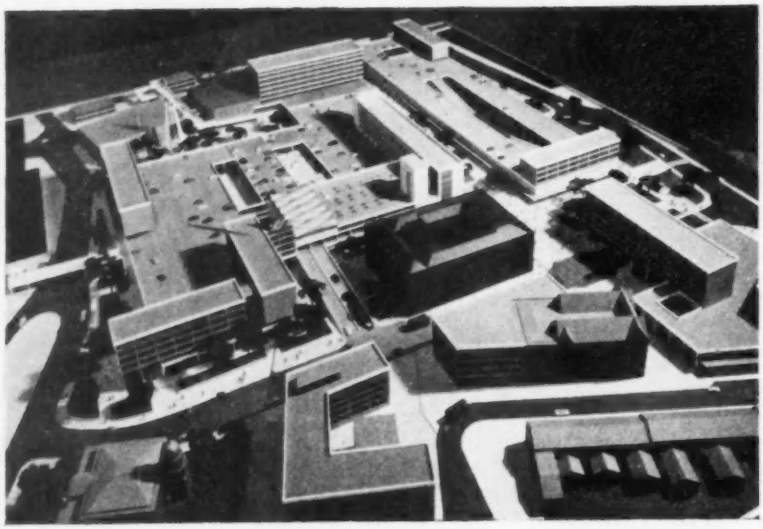


COMPREHENSIVE DEVELOPMENT AT BLACKBURN.—*A model prepared by the Laing Development Co. Ltd. on behalf of Blackburn Corporation showing the proposed town centre forming part of their comprehensive development plan. The area shown covers some 14 acres, and is part only of the long-term redevelopment scheme for the entire central area, which extends to 150 acres. The plan envisages the complete isolation of the shopping centre from vehicular traffic*

Mumford, Mr. Desmond Donnelly, MP, and Sir Frederic J. Osborn, himself. Tickets, price 35s. (excluding wines), may be obtained from the Town and Country Planning Association, at the Planning Centre, 28 King-street, London, WC2.

**More Work for Civil Engineers**

SPEAKING in London on May 8, the chairman of the Federation of Civil Engineering Contractors, Mr. A. J. Hill, said that although the volume of work done by the civil engineering industry had increased in the past year by about 6 per cent, it had the capacity to do more. Members engaged overseas had increased their volume to a greater extent than the average of export industries, but the home community was lagging behind in the development of its services, he said. Mr. Hill referred in particular to sewage schemes, flood protection and water supply.

On the question of invitations to tender by local authorities for the smaller type of contract, the chairman stated that the trends indicated an easing of the position. The increase in authorisations for water and sewage schemes had continued during 1960, and the continued boom in private enterprise housing, together with the increase in industrial construction, would create further demands. The enlarged road programme would also provide more work over a wide range of jobs. Mr. Hill concluded on a cautionary note about the dangerous growth of direct labour, described as 'a form of nationalisation by the rear door.'

**Training Conference**

A CONFERENCE on practical training at the professional level is to take place at the Brixton School of Building on May 31. Mr. R. G. Norman, chairman of the governors, will be in the chair and the principal speaker will be Dr. Alec Rodger, professor of occupational psychology in the University of London. The conference is intended as a contribution to the activities of Commonwealth Technical Training Week. Persons who wish to attend may obtain further details from the Principal, Brixton School of Building, Ferndale-road, London, SW4.

**Hospital Board Appointment**

MR. H. S. ODDIE, FIOB, has been appointed a member of the Liverpool Regional Hospital Board for the period ending March 31, 1964.

## Professional Announcements

MESSRS. FLETCHER WATSON & PARTNERS, chartered architects, have moved to 3A Pont-street, London, SW1 (tel.: Belgravia 7228).

With effect from May 15 the London office of MR. ALFRED E. SEADEN, FIAS, quantity surveyor, moved from 51 Cannon-st., EC4, to 14 Gt. St. Thomas Apostle, Queen-st., EC4. The telephone number remains unchanged.

MR. IAIN D. B. PILKINGTON, MICE, consulting civil and structural engineer, has opened a practice at 16 High-street, Kingston-upon-Thames, Surrey (tel.: Kingston 5883).

## A Hundred Years Ago

**From The Builder of May 18, 1861**

PARK LANE AND PICCADILLY.—Can nothing be done to relieve the pressure of carts and carriages at the south end of Park-lane? If widening be possible, could not the line of Down-street be prolonged through Little Stanhope-street and the Mews, into Curzon-street, and the houses set back 15 or 20 feet? This would draw off a good deal of traffic both ways, and afford a direct line of communication through Grosvenor-square northwards. From Park-lane to Piccadilly is now a service of danger to both carriages and pedestrians.

'PIC A DELAI.'

## Coming Events

*WEDNESDAY, MAY 24*

RICS (SURREY COUNTY BRANCH).—One-day course on: 'Development or Redevelopment with Flats.' The New Bull Hotel, Leatherhead. 9.45 a.m.

RIBA & BUILDING CENTRE.—Presentation of awards for Fourth Trade & Technical Literature Competition, 1961, by Sir William Holford, PRIBA, who will also open an exhibition of prizewinning and other entries. 26 Store-st., WC1. 11 a.m. Mon. to Fri.: 9.30 a.m. to 5 p.m. Sats.: 9.30 a.m. to 1 p.m. (until June 10).

TIMBER DEVELOPMENT ASSOCIATION.—27th annual meeting (followed by luncheon). Dorchester Hotel, London, W1. 11 a.m.

*THURSDAY, MAY 25*

FAS.—Meeting of Executive Council. 68 Gloucester-pl., W1. 2.30 p.m.

THE MODULAR SOCIETY LTD.—Visit to North Herts. College of Further Education, Stevenage. 2.30 p.m. (at College).

ROYAL SOCIETY OF ARTS.—Henry Morley Lecture: 'Bauxite and Aluminium with Particular Reference to the Commonwealth,' by Mr. W. Brining. John Adam-st., WC2. 5.15 p.m.

INSTITUTION OF STRUCTURAL ENGINEERS.—Annual meeting. 11 Upper Belgrave-st., SW1. 6 p.m.

*SATURDAY, MAY 27*

RIBA.—Allied Societies' North of England meeting. Queen's Hotel, Leeds. 2 p.m.

LONDON ASSOCIATION OF MASTER STONEMASONS.—Annual practical demonstration in stonemasonry by London Apprentices. Webber & Corben's Works, Nelson's-row, High-st., Clapham, SW4. 2.30 p.m.

## Competition News

*House Design Competition for Gas Council*

AN OPEN COMPETITION for four types of house design is being sponsored by the Gas Council. Conditions are now available and designs must be in by August 31, 1961. Designers are called on for the minimum amount of work in presenting their ideas, so that effort may be concentrated on solving design problems in new ways, offering exciting new possibilities for living in modern society. Assessor: Mr. George Grenfell Baines, OBE, FRIBA, MTPI. The competition is open to registered architects, and Students RIBA if in association with a registered architect. Details from the Secretary, House Design Competition, The Gas Council, 1 Grosvenor-place, London, SW1.

*Town Centre Redevelopments, Haddington*

TO HELP SOLVE the problem of redeveloping the town centre of Haddington to the best possible advantage, the Town Council has agreed to ask a number of selected architects to draw up plans, at no cost to the Council, on a guarantee that the winning plan entered 'would earn for its originator the job of carrying out the scheme.'

# More Everyday Things

BY ARTHUR W. KENYON, CBE, FRIBA

## 42. Do-It-While-You-Wait

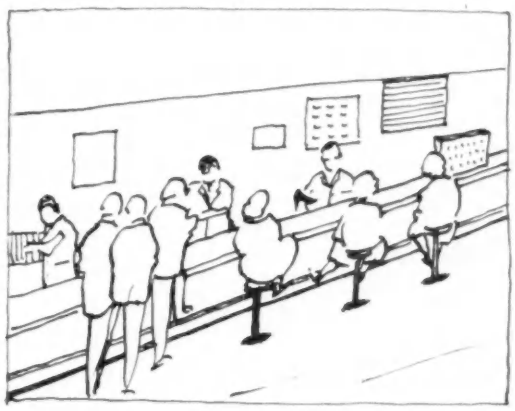
WE HAVE BECOME so accustomed to accepting the glib 'two to three weeks' and 'can't promise anything under a month' sort of answers when we take out the simplest domestic implements to be repaired, that it is refreshing to find one of our large London stores running a do-it-while-you-wait service to accommodate some of our commonest needs of mend-and-make-do.

It all seemed to begin with stiletto heels, those latterday extremities of feminine nonsense. The spectacle of damsels in distress, knowing not whether to walk barefoot or hobble on one remaining stilt, either softened the heart or sharpened the wit of some far-sighted departmental manager, and a 'heel bar' was conceived with stools where my lady can sit and wait for the few minutes it takes an expert to put her on stilts again. (It would be considered ungallant of me, I suppose, to say I am reminded of the blacksmith and his forge.)

This was only the beginning of the long bar of do-it-while-you-wait services. The enterprising departmental manager with a keen eye to business had seen me too with my humble needs, and I can get a spare key cut and my scissors sharpened while I wait. No longer need I ring my own front door bell for three days or so while some key cutter in a place unknown is copying my only key and sending it back to the shop where I left it in the first place. And when my favourite pen-knife (without which life for me is not worth while) is blunt again, I need not wait for my itinerant pedlar who, alas, seems to have become lost to me of late. I used to meet him in Gower-street quite regularly and could always count on keeping my knife in trim. The white-coated assistant who did it instead made an excellent job of it—and it is quite easy, I assure those of you who do not already know, to ruin a knife on a grindstone.

You can also have eyelet holes put in leather belts; ear-rings repaired; marquesite stones renewed—for none of which services I find any pressing personal need, but I have no doubt there is much more to come.

I do not pretend that all this has anything to do with building as such, but it does occur to me that it makes good material for an old-fashioned sermon to architects and builders, of the sort that starts with a text and finishes with a stern admonition. I am not really under any illusion that the kings of commerce who provide a service for typists with broken heels really feel wrung at the heart when they see a young lady with one foot firmly attached to a grating. I do not think they even care whether or not I have to get through life as best I can with my favourite instrument dull and blunt. But they do want to please their customers, big and small: they want them in their store and they are prepared to go to any lengths to get them there by discovering their needs and providing for them. They make a study of them: they watch them at work and play. No whim or foible is too trivial for consideration. The customer is always right and he must be given service.



*The 'heel-bar'*

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G. J. HOWLING.

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| B. Mills | c. Day b. Peake | 6 |
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| D. Stevens | b. Hill | 16 |
| E. Drew | not out | 1 |
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J. Sellers, Yorkshire.
J. A. Seward, LMBA.
S. G. Shepherd, Liverpool.
E. Thompson, NFBTE.
F. Vidler, LMBA.
J. Walker, South Western.
12th man—F. T. Waugh, NFBTE.

COMPREHENSIVE DEVELOPMENT AT BLACKBURN.—*A model prepared by the Laing Development Co. Ltd. on behalf of Blackburn Corporation showing the proposed town centre forming part of their comprehensive development plan. The area shown covers some 14 acres, and is part only of the long-term redevelopment scheme for the entire central area, which extends to 150 acres. The plan envisages the complete isolation of the shopping centre from vehicular traffic*

Mumford, Mr. Desmond Donnelly, MP, and Sir Frederic J. Osborn, himself. Tickets, price 35s. (excluding wines), may be obtained from the Town and Country Planning Association, at the Planning Centre, 28 King-street, London, WC2.

**More Work for Civil Engineers**

SPEAKING in London on May 8, the chairman of the Federation of Civil Engineering Contractors, Mr. A. J. Hill, said that although the volume of work done by the civil engineering industry had increased in the past year by about 6 per cent, it had the capacity to do more. Members engaged overseas had increased their volume to a greater extent than the average of export industries, but the home community was lagging behind in the development of its services, he said. Mr. Hill referred in particular to sewage schemes, flood protection and water supply.

On the question of invitations to tender by local authorities for the smaller type of contract, the chairman stated that the trends indicated an easing of the position. The increase in authorisations for water and sewage schemes had continued during 1960, and the continued boom in private enterprise housing, together with the increase in industrial construction, would create further demands. The enlarged road programme would also provide more work over a wide range of jobs. Mr. Hill concluded on a cautionary note about the dangerous growth of direct labour, described as 'a form of nationalisation by the rear door.'

**Training Conference**

A CONFERENCE on practical training at the professional level is to take place at the Brixton School of Building on May 31. Mr. R. G. Norman, chairman of the governors, will be in the chair and the principal speaker will be Dr. Alec Rodger, professor of occupational psychology in the University of London. The conference is intended as a contribution to the activities of Commonwealth Technical Training Week. Persons who wish to attend may obtain further details from the Principal, Brixton School of Building, Ferndale-road, London, SW4.

**Hospital Board Appointment**

MR. H. S. ODDIE, FIOB, has been appointed a member of the Liverpool Regional Hospital Board for the period ending March 31, 1964.

## Professional Announcements

MESSRS. FLETCHER WATSON & PARTNERS, chartered architects, have moved to 3A Pont-street, London, SW1 (tel.: Belgravia 7228).

With effect from May 15 the London office of MR. ALFRED E. SEADEN, FIAS, quantity surveyor, moved from 51 Cannon-st., EC4, to 14 Gt. St. Thomas Apostle, Queen-st., EC4. The telephone number remains unchanged.

MR. IAIN D. B. PILKINGTON, MICE, consulting civil and structural engineer, has opened a practice at 16 High-street, Kingston-upon-Thames, Surrey (tel.: Kingston 5883).

## A Hundred Years Ago

**From The Builder of May 18, 1861**

PARK LANE AND PICCADILLY.—Can nothing be done to relieve the pressure of carts and carriages at the south end of Park-lane? If widening be possible, could not the line of Down-street be prolonged through Little Stanhope-street and the Mews, into Curzon-street, and the houses set back 15 or 20 feet? This would draw off a good deal of traffic both ways, and afford a direct line of communication through Grosvenor-square northwards. From Park-lane to Piccadilly is now a service of danger to both carriages and pedestrians.

'PIC A DELAI.'

## Coming Events

*WEDNESDAY, MAY 24*

RICS (SURREY COUNTY BRANCH).—One-day course on: 'Development or Redevelopment with Flats.' The New Bull Hotel, Leatherhead. 9.45 a.m.

RIBA & BUILDING CENTRE.—Presentation of awards for Fourth Trade & Technical Literature Competition, 1961, by Sir William Holford, PRIBA, who will also open an exhibition of prizewinning and other entries. 26 Store-st., WC1. 11 a.m. Mon. to Fri.: 9.30 a.m. to 5 p.m. Sats.: 9.30 a.m. to 1 p.m. (until June 10).

TIMBER DEVELOPMENT ASSOCIATION.—27th annual meeting (followed by luncheon). Dorchester Hotel, London, W1. 11 a.m.

*THURSDAY, MAY 25*

FAS.—Meeting of Executive Council. 68 Gloucester-pl., W1. 2.30 p.m.

THE MODULAR SOCIETY LTD.—Visit to North Herts. College of Further Education, Stevenage. 2.30 p.m. (at College).

ROYAL SOCIETY OF ARTS.—Henry Morley Lecture: 'Bauxite and Aluminium with Particular Reference to the Commonwealth,' by Mr. W. Brining. John Adam-st., WC2. 5.15 p.m.

INSTITUTION OF STRUCTURAL ENGINEERS.—Annual meeting. 11 Upper Belgrave-st., SW1. 6 p.m.

*SATURDAY, MAY 27*

RIBA.—Allied Societies' North of England meeting. Queen's Hotel, Leeds. 2 p.m.

LONDON ASSOCIATION OF MASTER STONEMASONS.—Annual practical demonstration in stonemasonry by London Apprentices. Webber & Corben's Works, Nelson's-row, High-st., Clapham, SW4. 2.30 p.m.

## Competition News

*House Design Competition for Gas Council*

AN OPEN COMPETITION for four types of house design is being sponsored by the Gas Council. Conditions are now available and designs must be in by August 31, 1961. Designers are called on for the minimum amount of work in presenting their ideas, so that effort may be concentrated on solving design problems in new ways, offering exciting new possibilities for living in modern society. Assessor: Mr. George Grenfell Baines, OBE, FRIBA, MTPI. The competition is open to registered architects, and Students RIBA if in association with a registered architect. Details from the Secretary, House Design Competition, The Gas Council, 1 Grosvenor-place, London, SW1.

*Town Centre Redevelopments, Haddington*

TO HELP SOLVE the problem of redeveloping the town centre of Haddington to the best possible advantage, the Town Council has agreed to ask a number of selected architects to draw up plans, at no cost to the Council, on a guarantee that the winning plan entered 'would earn for its originator the job of carrying out the scheme.'

# More Everyday Things

BY ARTHUR W. KENYON, CBE, FRIBA

## 42. Do-It-While-You-Wait

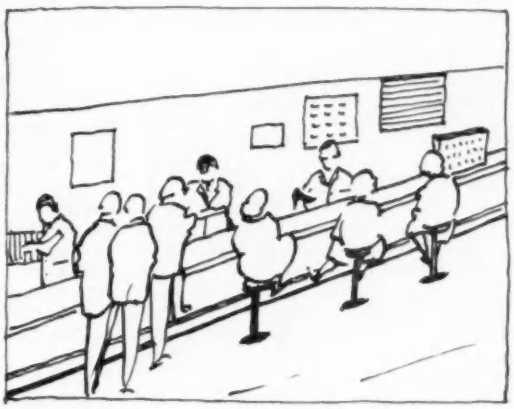
WE HAVE BECOME so accustomed to accepting the glib 'two to three weeks' and 'can't promise anything under a month' sort of answers when we take out the simplest domestic implements to be repaired, that it is refreshing to find one of our large London stores running a do-it-while-you-wait service to accommodate some of our commonest needs of mend-and-make-do.

It all seemed to begin with stiletto heels, those latterday extremities of feminine nonsense. The spectacle of damsels in distress, knowing not whether to walk barefoot or hobble on one remaining stilt, either softened the heart or sharpened the wit of some far-sighted departmental manager, and a 'heel bar' was conceived with stools where my lady can sit and wait for the few minutes it takes an expert to put her on stilts again. (It would be considered ungallant of me, I suppose, to say I am reminded of the blacksmith and his forge.)

This was only the beginning of the long bar of do-it-while-you-wait services. The enterprising departmental manager with a keen eye to business had seen me too with my humble needs, and I can get a spare key cut and my scissors sharpened while I wait. No longer need I ring my own front door bell for three days or so while some key cutter in a place unknown is copying my only key and sending it back to the shop where I left it in the first place. And when my favourite pen-knife (without which life for me is not worth while) is blunt again, I need not wait for my itinerant pedlar who, alas, seems to have become lost to me of late. I used to meet him in Gower-street quite regularly and could always count on keeping my knife in trim. The white-coated assistant who did it instead made an excellent job of it—and it is quite easy, I assure those of you who do not already know, to ruin a knife on a grindstone.

You can also have eyelet holes put in leather belts; ear-rings repaired; marquesite stones renewed—for none of which services I find any pressing personal need, but I have no doubt there is much more to come.

I do not pretend that all this has anything to do with building as such, but it does occur to me that it makes good material for an old-fashioned sermon to architects and builders, of the sort that starts with a text and finishes with a stern admonition. I am not really under any illusion that the kings of commerce who provide a service for typists with broken heels really feel wrung at the heart when they see a young lady with one foot firmly attached to a grating. I do not think they even care whether or not I have to get through life as best I can with my favourite instrument dull and blunt. But they do want to please their customers, big and small: they want them in their store and they are prepared to go to any lengths to get them there by discovering their needs and providing for them. They make a study of them: they watch them at work and play. No whim or foible is too trivial for consideration. The customer is always right and he must be given service.



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# The Royal Institute of British Architects

## Lively Discussion at 123rd Annual Meeting

THE 123rd annual general meeting of the Royal Institute of British Architects was held on Tuesday, May 9, 1961, and began at 7 p.m., the Special General Meeting on the by-laws which preceded it having lasted for an hour.

THE PRESIDENT presented the Report of the Council and Committees for the year 1960 and, after the Hon. Secretary (Mr. D. E. E. Gibson) had given a summary of the principal items in the year's work dealt with in his Foreword to the Report, moved that it be received. THE HON. SECRETARY having seconded the motion, the Report was taken page by page and item by item.

MR. ARTHUR LING (F) regretted that the reports on such important bodies as the County Architects' Society, the City and Borough Architects Society and the UK Committee of the IUA (which was appointed by the Council of the RIBA) should be printed in an appendix and in type which made them impossible to read.

THE PRESIDENT gave the assurance that there was no intention of putting them in the shade, but they had to be under a separate heading, with the possible exception of the UK Committee of the International Union.

On the report of the *Constitutional Committee*, which has now completed its work, MR. G. T. WEST (A) pointed out that the revision which could be made of the by-laws was limited by the terms of the Charter. The Charter was basically seventy years' old and dealt with a type of Institute that had long since vanished. The provisions in the Charter relating to resolutions of the Institute and By-law revision assumed that the Institute was a sort of club to which the members came and that it was competent for such a meeting as the present one to make major decisions on Institute matters, though it had long been recognised that the only authoritative expression of opinion was a poll of the members. No meeting such as the present one, however many members were present, should be able to bind the Council, and he felt that any major revision of the By-laws should be submitted at some stage to the total membership for approval or otherwise. There was a clear case for Charter revision.

### Charter Revision

The PRESIDENT said the Council recognised that it might be necessary to apply for a new Charter, but that could not be done too frequently; it would be bad for the Institute to 'keep on popping up' with points for incorporation. Charter revision would have to be faced before long, but first all the points to be included must be determined.

MR. A. W. CLEEVE BARR confirmed what the President had said but added that the longer Charter revision was left the more difficult it would be and the more opposition there was likely to be from the profession. Though not a top priority, the Secretary might be asked to look into it and present to the Council the arguments for and against some action being taken.

MR. D. H. MCMORRAN (F) called attention to the statement in the report of the *Competitions Committee* that a panel of members had been formed to scrutinise and report on the conditions of competitions, which had previously been done by the Chairman of the Committee. It was asking a good deal of Committee members, he suggested, to bear in mind that these were very confidential matters about which they should not even think, let alone speak, and they must be precluded from taking part in any competition of which they had seen the draft conditions and must dissociate themselves from anyone who entered.

THE PRESIDENT emphasised that the work of the Committee must not only be treated as extremely confidential but must be seen to be so regarded.

### Complexity of Competitions

MR. DENIS CLARKE HALL (F), Chairman of the Committee, said that all its members were aware of the confidential nature of their duties. The change had been made purely because of the pressure of work on the Chairman; not only the number of competitions but their complexity was increasing.

MR. W. G. HOWELL (A), a member of the Committee, pointed out that the panel appointed for this duty was not a sub-committee but a body from which members could be drawn. Only one member would scrutinise the conditions, with the Deputy Secretary, though for 'educational' reasons there might have to be more than one in the next few years.

THE PRESIDENT agreed that it was essential that more people should be available to scrutinise the conditions, which were becoming far more difficult and needed the most careful consideration. It was also necessary that some training should be given in the work.

MR. MCMORRAN, as a former Secretary of the Committee, said that in the past only the Chairman had been precluded, but in future any member who undertook the task of scrutiny should be precluded.

MR. R. D. BUTTERELL (A), referring to the paragraph on 'Training for Technicians' in the report of the *Board of Architectural Education* and to the fact that a sub-committee had been appointed to draw up 'at once' a scheme of training, said that this brought in the question of a two-tier profession, and many members were extremely worried about its implications. He asked for an assurance that no far-reaching decisions would be taken without more information. He proposed to move an amendment to the motion for the reception of the Annual Report in order to focus the attention of the members generally on the subject.

PROFESSOR ROBERT MATTHEW (F) said that no decisions would be taken by the sub-committee until the survey now in progress had been completed and recommendations made by the committee conducting it. They had started to look at possible courses only because they had not had much to do in the interim, and the exercise had been a most useful one, but this was in no sense intended to prejudge the issues.

MR. J. MACKAY LEWIS (A) feared that when the work had been done by the Committee there would be an unnecessarily dangerous temptation for the Council to implement it. He felt that the Committee should not have been set up until the whole position had been reviewed in the light of the survey report.

MR. FREDERICK GIBBERD (F), speaking as a Vice-President, said that though violently opposed to a two-tier profession he saw no harm in what had been done, because it provided more information about the situation.

MR. E. B. REDFERN (A) said that at the last AGM it had been decided that the requirement of two 'A' levels should date from September 1, 1961. He had therefore been surprised to read in the December 'Journal' that it had been decided to bring forward the date and introduce the requirement immediately. The same information had been sent to the Schools in a letter dated October 27, 1960. It transpired that the Secretary had made the announcement six weeks before the Council approved it.

From letters he had received from various parts of the country there seemed to be dissatisfaction with the fact that of the 76 members of the Advisory Council no fewer than 45 had academic associations, and of the 19 members of the Board only 8 had no association with teaching. It did not seem good for the profession that the Board should be its own counsel, judge and jury. He also felt that the Chairman should be an elected member.

### Status Controversy

Although many members believed it would be good to have a separate class of technicians, he felt that the use of the word 'tier' or 'technician' would have unfortunate effects. For many years there had been a controversy between school-trained and office-trained architects, and the argument would not grow less if two classes of architect were created, the artist and the technician, the long-haired and the short-haired, the designer and the man who did the working drawings. It would be better to combine both methods and produce a complete architect, with one examination which would ensure in future entrants a higher degree of all-round competence.

He had been in contact with a number of members and proposed to invoke By-law 60 as it now stood to ascertain by a poll the views of members on four basic questions relating to architectural education. So far the demand for a poll had been signed by 42 Fellows, 106 Asso-

*(Continued on page 954)*

# Design Centre Awards, 1961

THE JUDGES appointed by the Council of Industrial Design have this year chosen only 13 products for Design Centre Awards from over 3,000 exhibits displayed during 1960 in The Design Centre or in the permanent outdoor exhibition of Street Furniture on the South Bank. It is striking that no carpets, fabrics or wallpapers have been chosen—in fact hardly anything which relies on decoration except as incidental to the whole design. This is because the judges felt that, compared with previous years, there had been no products exhibited from these industries which were sufficiently outstanding. The selection panel this year included Mr. Whitney W. Straight, CBE, MC, DFC (Chairman), Mr. Neville Conder, FRIBA, AADip(Hons), FSIA, Mrs. Jo Pattrick, Mr. J. M. Richards, CBE, ARIBA, Mrs. Gaby Schreiber, FSIA. The awards below are listed in alphabetical order of manufacturer.

Towel rail, model PC 181. Designer and maker: Peter Cuddon.

Table mirror, model PC 180. Maker: Peter Cuddon. Designer: Colin Beales, ARIBA.

'Chef Royal' White Saucepans. Maker: Edward Curran Engineering Ltd. Designer: Berkeley Associates.

'Orbit' furniture castors. Maker: Joseph Gillott & Sons Ltd. Designers: Company's Design Staff in conjunction with R. David Carter, MSIA.

'Town Number One' litter bin. Maker: G. A. Harvey & Co. (London) Ltd. Designers: Derek Goad and John Ricks of Donald Forrest, ARIBA.

'Form' unit furniture. Maker: S. Hill & Co. Ltd. Designer: Robin Day, RDI, ARCA, FSIA.

'Kodaslide 40' slide projector. Maker: Kodak Ltd. Designer: Maker's Development Department in association with Kenneth Grange, FSIA.

'Redfyre Centramatic 35' oil-fired boiler, 35,000 BThU/hr. Maker: Newton, Chambers & Co. Ltd. Designers: Maker's design department in association with Brian Asquith, ARCA.

'Paragon' chemical closet, of high density polythene. Maker: Racasan Ltd. Designer: Martyn Rowlands, MSIA.

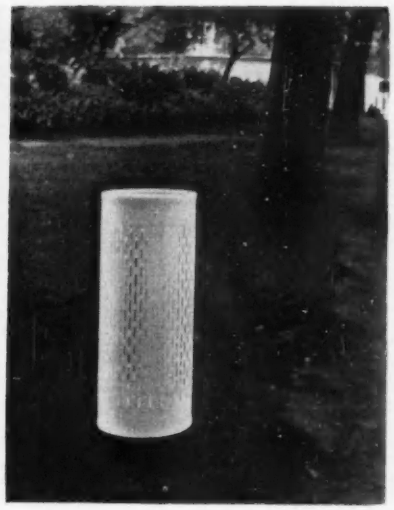
'Cormorant' folding outdoor chair, of hardwood laminates. Maker: Race Furniture Ltd. Designer: Ernest Race, RDI, FSIA.

Adjustable spotlights, with pendant, floor standard or wall bracket fixture. Maker: Rotaflex (Great Britain) Ltd. Designers: John and Sylvia Reid, AA/RIBA, FF/SIA.

'Monte Carlo' carving set, in stainless steel. Maker: George Wostenholm & Son Ltd. Designer: G. G. Bellamy, DesRCA.

Portable transistor Radio, TR 70, with high impact polystyrene cabinet. Maker: Ultra Radio and Television Ltd. Designer: Eric Marshall, FSIA. The designer was awarded the Duke of Edinburgh's Prize for Elegant Design for this product.

1



2

*1. Towel Rail, model PC 181, of aluminium frame with a porcelain sleeve. Designer and maker: Peter Cuddon.*

3

*2. 'Town Number One.' Litter bin of perforated sheet steel. Designers: Derek Goad and John Ricks of Donald Forrest, ARIBA. Maker: G. A. Harvey & Co. (London) Ltd.*

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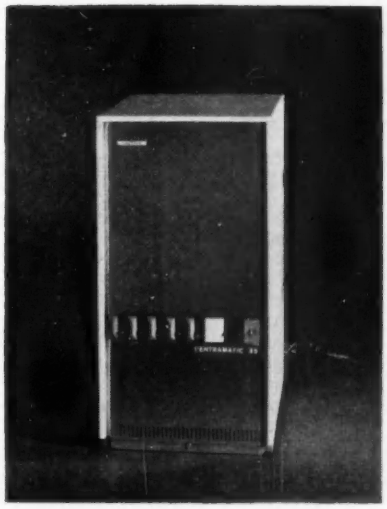

*3. 'Paragon' Chemical Closet of high density polythene. Designer: Martyn Rowlands, MSIA. Maker: Racasan Ltd.*

*4. 'Redfyre Centramatic 35' oil-fired boiler of 35,000 BThU/hr. Anodised aluminium panel front. Designers: Maker in association with Brian Asquith, ARCA. Maker: Newton, Chambers & Co. Ltd.*

(Continued from page 952)

ciates and 49 Licentiates. The questions concerned the composition of the Board, the acceptance of Probationers the need for less diversity in the examinations and objection to the Oxford Conference proposal to abolish the Institute examination altogether. The document and explanatory notes would be sent to the Secretary.

THE PRESIDENT said that in October last he had written to the Chairman of the Board giving his view on the two 'A' levels. He had referred to the possibility of admitting to the profession several hundred people with an entry standard which it had been agreed was too low. At present boom conditions and the shortage of junior staff gave the illusion that there were too few architects, but when the wind changed they might easily come to feel that they had too many. He had added that to withdraw the proposal might damage the profession's reputation and do incalculable harm.

### Hardship Committee

MR. E. D. MILLS (F), Chairman of the Board, said that with regard to the two 'A' levels a special committee had been set up to deal with cases of hardship, and out of 77 cases considered 69 had been accepted. The Board consisted of 20 members, of whom only 7 were teachers, and those 7 all conducted practices of some size. Teaching staff were encouraged to practise. The teachers on the Advisory Council had all had considerable experience in practice. The question of two tiers was still undecided and awaited further research and the report of the survey team.

MR. THURSTON WILLIAMS (A) did not want the meeting to be diverted from the point raised by Mr. Butterell. As a Council member he hoped to obtain from the meeting some idea of the feelings of the members generally on this issue. As a salaried member he thought it could be summed up in the word 'dilution.' The salaried members, who made up 70 per cent of the membership of the Institute, were for the first time in history beginning to approach a position where they were paid for what they did, and they might be seriously affected.

MR. JOHN SMITH (A) said the important question was whether or not the issue would come before the membership at large. Would a meeting of members be held at which it could be discussed?

THE PRESIDENT replied that he was not in a position to commit the Council, but the matter was so complicated that a special meeting of Council would have to be held to consider it, and it might very well be that they would decide on further reference.

MR. BUTTERELL, again emphasising that his intention was not to prejudge the issue but to focus attention on it, moved his amendment:

> 'That the Annual Report be adopted subject to the Council's communicating to all members the information on which the Council will base their decision relating to a Technician class, followed by a General Meeting convened by the Council before any decision is made on this issue.'

MR. W. HOME (A) seconded the amendment, in view of the danger that the Council might make a wrong decision, which would transform the structure of the profession against the real interests of the majority of the members. The Allied Societies, he said, had rightly been asked for their views, but members who lived and worked in London had had little opportunity to discuss the complicated issues involved. He believed that on the whole those who supported the admission of technicians did so largely on grounds of expediency, while those who opposed it did so on principle.

THE PRESIDENT took the view that the amendment amounted to a vote of no confidence in the Council. The Council, as the sovereign body of the Institute, should be entrusted with the decision of how and when to seek more general support on such an important matter. The amendment could, however, be carried as a recommendation to Council.

MR. H. T. SWAIN (A) felt that the mover of the amendment had already succeeded in doing what he had set out to do by calling attention to the matter. As a member of the Committee working on this problem Mr. Swain could say that the division in the profession was reflected in the Committee, as it was in the Council. There was no desire on the part of anyone to 'railroad' a decision.

THE PRESIDENT said that to bind the Council to hold a Special General Meeting on the subject in advance of the information coming to them would be to lay it open to a snap decision. Having called attention to the subject, he suggested that the mover of the amendment should ask leave to withdraw it.

MR. G. B. ODDIE (A) supported the President and thought the Council could be relied upon to make known its recommendations but not take any decision until the views of the membership had been tested in some way.

MR. BUTTERELL, in view of what had been said, asked leave to withdraw his amendment, expressing the hope that when the time came the matter would be debated in the best possible way.

THE PRESIDENT willingly gave that assurance, and the amendment was by leave withdrawn.

### 'Chronic Shortage of Teachers'

MR. ARNOLD LINDEN (A) referred to the number of recognised schools, of which there were 28 at the moment, and asked whether any more were needed. There was a chronic shortage of teachers. In the near future there might well be a shortage of students and empty places in existing schools, in anticipation of future shortage of work. The requirement of two 'A' levels might have an effect. Some people connected with the smaller schools were already worried about not having enough students to fill their quota and one school was seriously contemplating closing down. As the academic level of the students was being raised, what was being done to raise the academic level of the teaching staff? What was being done about teaching staff recruitment and training? What were the Council doing to promote the adequate staffing of the schools? Could something be done by regionalising the schools?

MR. EVERARD HAYNES (Secretary to the Board) said it was not yet known how many people would be accepted by the schools in the coming autumn, with the two 'A' levels, but the information received from the heads of schools was that the number of applications had not decreased by comparison with previous years. Up to now the Board had not regarded regionalisation as a policy to be followed. The Board were giving consideration to questions of the academic level and availability of teaching staff.

### BASA Representation

MR. H. T. SWAIN (A) referred to the statement in the Report that 'The Board is in close touch with the British Architectural Students' Association' and said that this was not enough. There were 6,500 Students and their views should be heard in the Council chamber. At the moment there was no one on the Council who could speak for them or who knew their problems. He hoped the Council would agree to consider this.

THE PRESIDENT replied that the observation would be noted.

MR. J. MACKAY LEWIS supported what had been said and suggested that more co-operation might be obtained from the Students if more RIBA Committees had Students on them. He thought that BASA would support that proposal and many Council members would welcome it. The question of direct or indirect Student representation on the Council should be considered.

THE PRESIDENT said the Council had done everything they could think of to keep in touch with the Students and were in very close contact with BASA. If there was anything more they could do they would like to be told. Consideration was being given to how students could be represented (though obviously not as members) on Committees.

MR. E. D. MILLS confirmed what the President had said and added that they were always happy to consider any points raised by BASA.

MR. D. H. MCMORRAN referred to the great responsibility of the Visiting Board in ensuring that the level of examinations was kept reasonably uniform throughout the country, but did not feel happy that they used the RIBA examinations as the proper and only yardstick by which to measure the standard applied in the 28 recognised schools or that that standard was in every case maintained. He would like the Visiting Board to keep that in mind, and, in view of the great importance of their work, he hoped that in future Reports the names of the members of the Board would be given.

MR. MILLS said that one of the duties of the Visiting Board was to see that the standard maintained by the schools was of the level required for passing the RIBA examination.

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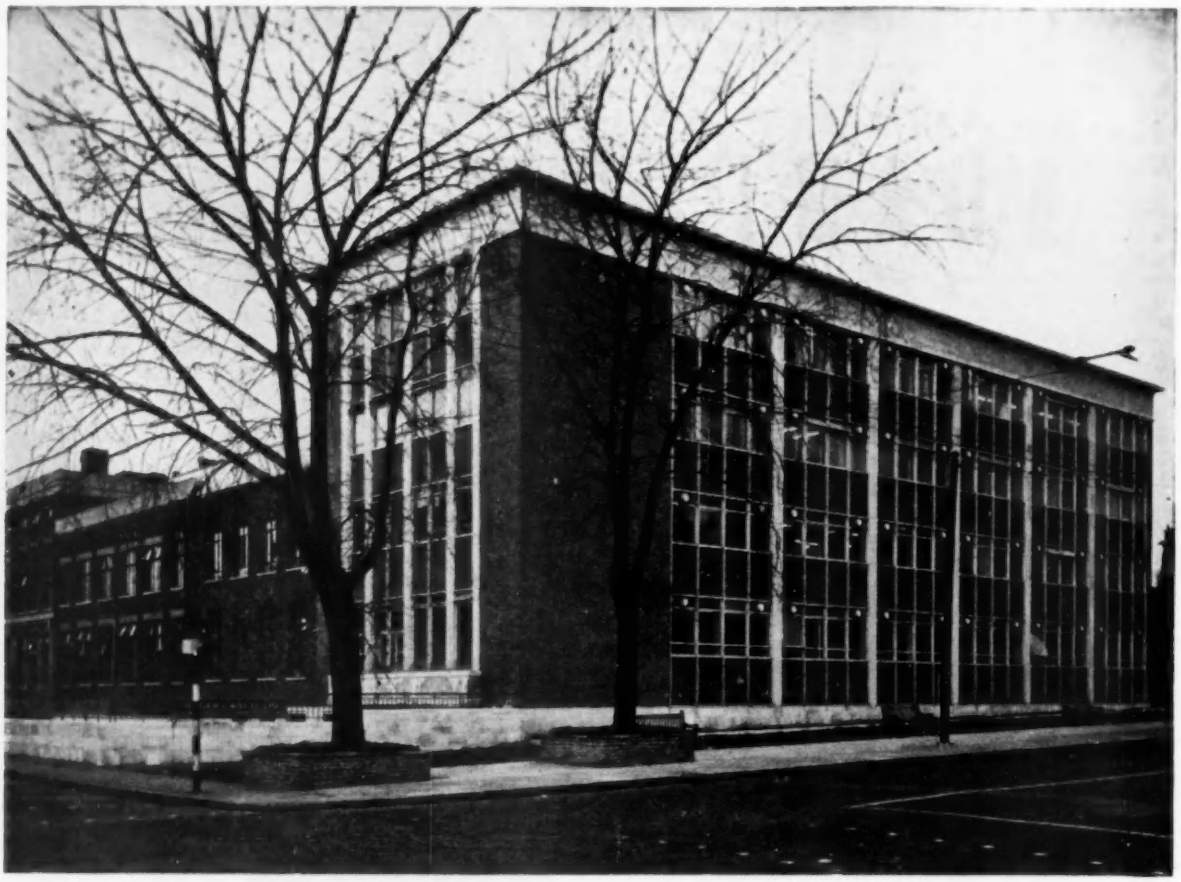

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tions Committee. MR. G. R. THOMPSON asked when the report on status and conditions of service of architects was likely to be available and whether it would contain recommendations for scales of remuneration.

THE PRESIDENT did not think the report would be ready until August. It was hoped to circulate it to members of Council towards the end of the vacation, so that they would have plenty of time to consider it before the October meeting of the Council. It would not make recommendations of the kind referred to: that would be for the Council to debate on the basis of the figures and observations in the report.

MR. HILARY CHAMBERS (student), on the report of the *Text Books Sub-Committee*, asked whether consideration had been give to a minimum standard for school libraries and to the possibility of giving them technical and/or financial help. In some cases local authorities did not provide adequate funds for the purpose. He hoped the RIBA could do something to promote a better standard.

MR. R. L. TOWNSEND (F), Chairman of the Library Committee, replied that help was given to schools of architecture in regard to their libraries; conferences had been arranged for architectural librarians and advice was given them, but he did not think that the Royal Institute could give financial assistance.

MR. ROBERT BAILIE raised, on the report of the *Public Relations Committee*, the question of what was being done to provide some form of architectural education in secondary schools. Was any body responsible for that work?

MR. W. G. HOWELL (A), Chairman of the Committee, said that a co-ordinated assault on this field was to be made. Miss Bromley had done a great deal in talking to inspectors, art teachers and others and a policy was being drawn up. The work must be done properly; it was no use having a list of people supposed to be willing to give talks only to find when they were wanted that they were dead.

### Attitude of Insurance Companies

MR. G. B. THOMPSON (A) suggested that something should be done about the attitude adopted by insurance companies towards new forms of construction, in regard to which there was a tendency for them to be conservative and charge a high premium. He had had experience of that attitude in regard to a form of construction freely adopted in other parts of the world.

THE PRESIDENT said that that was a good point, but it would be for the Standards Committee to consider it.

MR. HOWELL, asked to comment on the Gallup Survey, said it had produced some interesting results on which comment might be made in the 'Journal.' It had indicated almost complete lack of knowledge about how architects were paid and had indicated that a great deal of education of the general public was necessary.

MR. HOME (A) regretted to see the statement in the report of the Sound Broadcasting and Television Sub-Committee that no comprehensive monitoring service could be carried out, since this must handicap the work of the Sub-Committee, and wondered whether there was some organisation which could provide the information in return for a subscription. A good deal of matter must be broadcast about architecture which might give rise to misconceptions which should be corrected.

MR. HOWELL said it was no use asking an outside body to appraise broadcasts on architecture, and if members of the staff were to be asked to do so they would have to be taken off other work. The Sub-Committee, however, were not satisfied with the present situation.

MR. MALCOLM MACEWEN (Public Relations Officer) pointed out that a monitoring service would have to cover seven regions in which there was both commercial and BBC television in addition to sound. They could not hope to cover more than the important programmes.

### Outstanding Mortgage

*Finance.* THE HON. TREASURER (Mr. Hubert Bennett), at the invitation of the President, outlined the salient points in his report and said that the Council had decided at a recent meeting that it was uneconomic to continue paying 5½ per cent interest on the outstanding mortgage of £42,000 while having invested another large sum of money which brought in a smaller return, so that by paying off the mortgage at the earliest possible date a substantial saving would result. The Council had therefore decided to give notice for the repayment of the balance of the mortgage in June of the present year and to approve short-term loans being obtained from the bank if necessary at the end of the year. The surpluses during the last three years totalled £58,000 odd, so that the Institute was in a position to get rid of the mortgage and in the near future have a small surplus.

MR. E. H. JAMILLY (A) referred to the loss on catering in 1960 and the provision for a loss of £12,000 over the next three years, and said that as, presumably, members and staff paid for their meals and did not expect them to be subsidised by the general membership the deficit must be due to entertainment. Something might be done to reduce it by letting it be known that the Institute building with catering facilities, was available to organised bodies such as the students of schools for social purposes.

THE HON. TREASURER said the figure was not a loss but an expense. Comparison could not be made with previous years because the whole of the relevant salaries, which before had been shown under a different item, were now included. The item covered the entertainment of Council guests and so on and entertaining by the officers in the furtherance of the Institute's work.

Another question raised was that of the expenditure on and fees charged for examinations, the figures in the Accounts appearing to show a surplus of £10,000.

The SECRETARY explained that the whole question had been examined by the Finance and House Committee and the Council and it had been found that the total cost of the facilities provided was about £15,500, so that the conclusion reached was that the fees were not excessive.

THE PRESIDENT said a great debt of gratitude was due to the Honorary Treasurer for all the work he did in looking after the finances of the Institute, and THE HON. TREASURER in his turn thanked the members of the Finance and House Committee, the Deputy Secretary (Mr. W. R. Ellis), who acted as Secretary of the Committee, and Mr. E. H. Bevan, the Cashier.

The motion for the reception of the Annual Report was then put and carried.

THE PRESIDENT thanked Mr. J. H. Austin-Smith (F) and Mr. Michael Ryan (A) for their services as Hon. Auditors for the past year. He announced that Mr. Nelson Foley (A) and Mr. Michael Ryan (A) were willing to be nominated as Hon. Auditors for the coming year and moved that they be so nominated. This was agreed to.

MR. G. B. ODDIE (A) said the length of the meeting—it was by this time 9.15 p.m.—was largely due to the terrific effort which the Royal Institute was now making, and whatever criticisms might be made in detail of the work of the various Committees it would be generally acknowledged that they were dealing with really lively issues. All members must feel great confidence that the affairs of the Royal Institute were now being run better than ever before. He thanked the President for his courteous, firm and competent conduct in the chair.

The meeting then ended.

## Special General Meeting

AT THE SPECIAL GENERAL MEETING held to consider the By-laws, which took place at 6 p.m. on May 9, immediately before the annual general meeting, the amendments to the by-laws other than Nos. 56, 59 and 60 adopted at the general meeting held on April 25 were confirmed. At the previous meeting it had not proved possible to agree on the exact wording of by-laws 56 and 59 and it had been left to the secretariat to produce revised drafts of these by-laws, and of by-law 60, to which consequential amendments were necessary, for consideration at the present meeting.

After a long discussion the new text of by-law 56 was approved, subject to the deletion of the words 'a majority of' in the penultimate line and of the words 'and voting' in the last line. This meant that a resolution carried at the meetings in question would have the effect of a Resolution of the Royal Institute as defined in the Charter 'only if carried by four-fifths of those present having the right to vote.'

The new text of by-law 59 was also approved, subject to the deletion of the words 'and voting' in line 15. The new text of by-law 60 was adopted subject to the correction of two typing errors: (1) the second paragraph should read.

> The Council shall also have power to direct in the terms of such Resolution whether the poll shall be taken

of members resident in *the Kingdom or any part thereof* alone, the members resident. . . .

(2) the word 'and' in the seventh line of the last paragraph should be omitted.

The President announced that counsel's opinion would be taken on the amendments, and that the confirmatory meeting would be held on June 6.

The discussion was concerned almost entirely with points of drafting, but at one point MR. REDFERN, the Institute's Solicitor, intervened to say that he did not understand the provision in the proposed new by-law 59 by which, apparently, a Special General Meeting could pass resolutions which were not resolutions of the Institute. If they were not resolutions of the Institute, what were they? He imagined that the Privy Council would want to know. He did not understand what was the effect of a resolution passed under the proposed new by-law 59.

# Housing in England and Wales

## RIBA Statement

THE ROYAL INSTITUTE OF BRITISH ARCHITECTS has considered the White Paper, 'Housing in England and Wales,' published by the Minister of Housing and Local Government in February, and the general contents of the Housing Bill now before Parliament. The Institute particularly welcomes the proposal to make exchequer loans to approved non-profit making housing associations to build houses to let at economic rents.

The Institute believes that the proposed subsidy arrangements will assist local authorities, which pass the test of resources, in coping with their housing problems in a more logical way than was possible when subsidies were limited to housing for a few specific purposes and there was no subsidy for general need. There is no reference in the White Paper, however, to the particularly difficult problems of urban renewal and comprehensive redevelopment where housing is an important element. It is considered that additional subsidies should be granted to assist authorities dealing with the difficult problems involved.

The Institute would welcome any steps that could be taken to remove the artificial distinctions between housing and town planning in consideration of the administrative and financial aspects involved in comprehensive redevelopment. The increasing need for the renewal of the older parts of our towns and cities seems to call for a review of these aspects in their wider setting.

The higher rates of subsidy payable on a graduated scale for high blocks of flats, and other special and additional subsidies, remain unchanged. The existing subsidy arrangements have, however, been strongly criticised because they discourage three-storey buildings. This is often a particularly valuable form of development because flats can be provided without lifts and the additional height provides relief from the monotony of continuous two-storey development. It is also useful in providing a variety of accommodation. This point should be re-examined.

The paragraphs on the land problem show that the Government recognises the extreme difficulties of the present situation, but the RIBA doubts whether the exhortations and proposed consultations described in the White Paper go very far towards removing these difficulties. The problem is not entirely one of allocating land for development. Extensive areas of land already zoned and usable for houses are not, in fact, being made available for development by their owners for a variety of reasons. Unless measures are taken to make this land available for development, pressures on green belts will increase. It is most undesirable that more land should be zoned for development while land already so zoned remains unused. In this connection it is the opinion of the RIBA that the White Paper might well have devoted more attention to the relevance of increased densities and making better use of land.

The proposals intended to encourage modernisation of old buildings are of value, but the RIBA is concerned lest the indiscriminate modernisation of individual houses should delay the redevelopment of areas which are already obsolete, and which should be renewed comprehensively at an early date. Where authorities have proposals for redevelopment within the next 15 years no improvement grant is payable, but there are many areas where the local authorities should have proposals for redevelopment within 15 years but have not. In these areas the modernisation of individual houses can prejudice the proper redevelopment of the areas on comprehensive lines and it would seem desirable for the Ministry to require authorities, if they have not done so, to submit proposals for comprehensive development areas where the layout and condition of property would justify such a course.

# News from the RIBA

## Progress on Office Survey Report

THE SURVEY TEAM, commissioned by the Royal Institute of British Architects to collect and analyse data from a cross section of offices throughout the United Kingdom, has now virtually completed the collection stage of its work. The team is moving on to the stage of analysing the data collected about costs, productivity, staffing and organisation from over 60 offices visited. A careful analysis of factual information, substantiated by fairly detailed impressions of the standard of service given, will form the basis for the report which, it is hoped, will be available for Council members towards the end of August, for consideration at the Council meeting in early October.

This was one of the announcements made at the RIBA Council meeting on May 9 that were made known by SIR WILLIAM HOLFORD, the president, at his Press conference on May 10. Other matters made known included:

*New RIBA Standard Form of Architect's Certificate.*—The new certificate pads for chartered and non-chartered architects, produced by the Technical Information Service on behalf of the practice committee, are now available at 27s. 6d. each. Each pad consists of 100 certificate forms in triplicate to A4 size. The certificate form comprises the direction to the main contractor to pay nominated sub-contractors, the certificate itself, a copy of the direction for the use of the quantity surveyor, the notification to the building owner, and a copy of the direction and certificate for the architect's file. Facilities are available for architects to have their names and addresses overprinted on the forms if they should wish.

*Architects in Jersey.*—A number of RIBA members in Jersey have joined together to form an Association of Jersey Architects, under the presidency of Mr. R. A. N. Biggar, ARIBA. There are some 27 members and retired members on the island.

*Architects in Malaya.*—There has been an amalgamation of the Institute of Architects of Malaya and the Society of Malayan Architects under the title of the Singapore Institute of Architects.

*The School of Architecture, College of Technology, Art and Commerce, Oxford.*—The Board of Architectural Education has recommended that the recognition of the five years' full-time diploma course for exemption from the RIBA intermediate examination and the RIBA final examination, without part 3, the examination in professional practical and practical experience, be continued.

*The School of Architecture, Leicester College of Art.*—It has been recommended that the seven years' part-time day and evening composite course in architecture at this school be recognised for exemption from the intermediate and final examinations, without part 3 of the latter. This composite course is being progressively abolished and as from September, 1961, no new entrants will be accepted. The number of students affected by the recommendation is 30.

*Examinations for Building Surveyors.*—Of the seven candidates who sat the examination in April, Colin Green, B. J. G. Levers, C. L. Marshall and A. L. Sargent were successful.

*London Architecture Bronze Medal.*—The award was made in favour of luxury flats at 26 St. James's-place, SW1, built to the design of Denys Lasdun & Partners. The general contractor was J. Jarvis & Sons Ltd. (illustrated in 'The Builder' of May 12).

*Award for Distinction in Town Planning.*—It was recommended that this award be conferred upon Sir Basil Spence, OBE, RA, PPRIBA, and Mr. Percy Johnson-Marshall, ARIBA.

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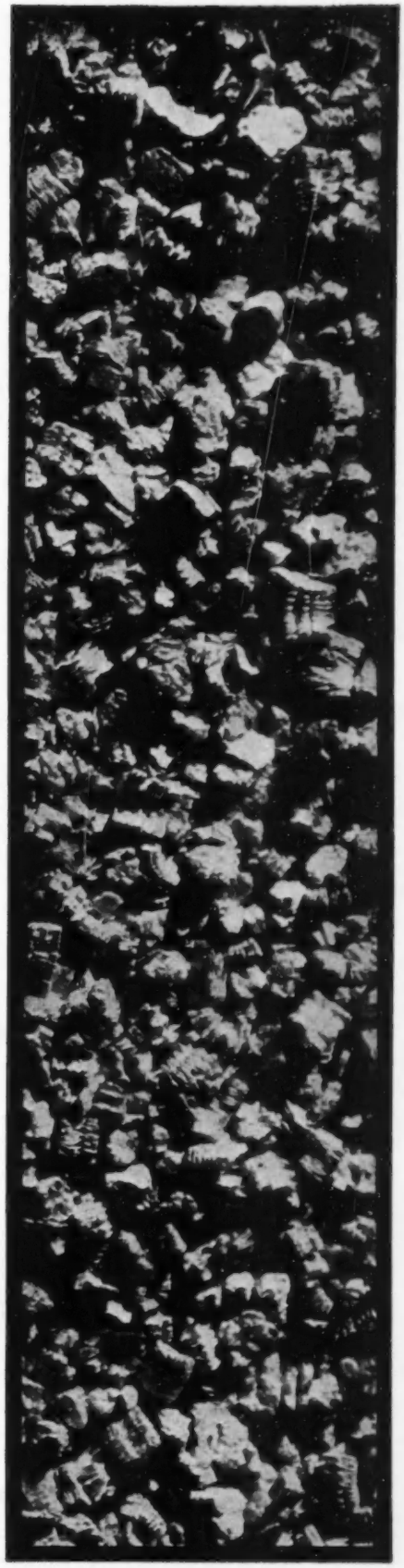

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# Institute of Clerks of Works

## Call to Establish Duties made at 79th Anniversary Dinner

'THAT EVERY COMPETENT CLERK OF WORKS should be a member of your Institute; and that the Institute should set up a joint committee with the RIBA to establish the duties and limitations of the office of clerk of works: these are the two things I should wish to see come about,' said MR. R. G. NORMAN, FIOB, chairman of governors, the Brixton School of Building, in London on May 13. He was speaking at the 79th anniversary dinner of the Institute of Clerks of Works of Great Britain, Incorporated at which the chair was taken by Mr. A. L. Warren, ARSanI, President.

Earlier the toast of the Institute had been proposed by MR. LEONARD C. HOWITT, M.ARCH(L'POOL), HON.FICW, who said that by knowledge gained through marking examination papers for the North-West chapter, he was proud of the prestige within the Institute. The great work the Institute had accomplished in exercising the functions of promoting and maintenance of a high standard of technical knowledge of the industry in all its members had benefited not only clerks of works but the whole of the industry and its associated professions, he said.

### Higher Status and Rewards

'We architects have a vital interest in the standards of all who engage in the process of translating our designs into material form, and particularly the clerk of works. Clerks of works must keep in step with the continually rising standards demanded of all building technicians and even press for the right to claim higher status and rewards more commensurate with the importance of their service.

'The practical experience of the clerk of works is an enormous comfort to the young, and not so young, architect. He is a philosopher and a student of human nature,' added Mr. Howitt. 'He inspires the respect of the site agent and foreman and achieves the kind of relationship which encourages co-operation and yet enables him to be firm when needs be. He makes the architect feel that his genius is acknowledged and unquestioned, without too obviously putting his tongue in his cheek. Among his minor talents, he knows the driest route over the muddiest site so that the architectural assistant's suede shoes remain unsoiled, and remembers whether this genius likes his tea coloured light-oak or dark-mahogany. He must also know how to take beards and lady architects seriously. Yet his basic functions have changed very little over the years.

In his response THE PRESIDENT said that the institute today followed very carefully the principles laid down 79 years ago by the 13 solid citizens who had founded it. 'Now we have over 2,000 members,' he said, 'and we could double or treble that number if we lowered our standards but this we shall not do. But we do claim to have the best of the clerks of works within the Institute.'

One of their problems had been to know how to attract and to hold the right type of man who would carry on the Institute's reputation, continued Mr. Warren. It had to be recognised that the qualifications of members did not always attract the rewards they deserved. But the matter should be approached from the human angle, for the profession was an interesting and rewarding one; it was more than just a job of work. 'We in the profession' said the President, 'know that we are helping to make building history; one can get away with half-truths in life, but not in building, the future will find you out.

Proposing a toast to the architects, surveyors and engineers MR. F. H. PECK, Past-president, said that it was 25 years since the first examinations of the Institute were held. Now the examinations were held in Britain and in many parts of the world, including Singapore, Ghana, Hong Kong and Rhodesia. But the status of the clerk of works must be raised. In local government he was placed about level with the dust collector; he should be on a grade along with other professional men.

Responses were made by MR. CLIFFORD CULPIN, OBE, FRIBA, and MR. A. L. HANDLEY, OBE, BSC, District Surveyor, the City of London. In an amusing speech Mr. Culpin said he had great respect for the clerk of works, though not for the type that watched a builder put up several hundred pounds worth of work in the wrong place and then condemned it. The right sort of man was the one who acted as liaison officer on the site; he did a very fine job. Any young architect going on to a site leaned very heavily on him.

MR. HANDLEY said that the mere passing of an exam was not enough: there must be experience too, for only that could teach one how to apply the rules that theory taught. He would agree, nevertheless that the Institute's policy of membership only through examinations was right. In an aside, Mr. Handley referred to a District Surveyor whom Mr. Culpin had nicknamed 'Iceberg' because he insisted on having four-fifths of the building work under the ground. 'For aesthetic reasons,' said Mr. Handley, 'I could wish that in some cases of which I know the whole structures were underground.'

The toast of the guests was proposed by MR. D. B. REILLY, Vice-president, MR. NORMAN responded.

# Obituary

*J. H. Markham ; Peter Gray*

MR. JOHN HATTON MARKHAM, who died on April 7, at the age of 78, was elected an Associate RIBA in 1905 and a Fellow in 1923. In 1905 he won the Ashpitel Prize, in 1906 the Arthur Cates Prize and in 1908 the Grissell Gold Medal. He joined the Office of Works in 1911 and, after continuous service, retired in 1942 but was then re-engaged for a time in research, as Assistant Director of Post-war Building. He later practised under the title of Leo O. L. Hannen and John H. Markham, and also conducted inquiries at intervals for the Ministry of Housing and Local Government.

John Markham's work was versatile and far ranging. It included Museums: the Geological Museum in Exhibition-road; the North Library and other work at the British Museum; extensions to the Science and the Natural History Museums and the British Museum Newspaper Library at Hendon. Telephone Exchanges: Bishopsgate, Bow, Temple Bar and many others. County Courts: Lambeth, Ilford, Epsom and Southwark. Parks: Hyde Park Bathing Pavilion (Lansbury Lido), the Cactus House and the Herbarium at Kew Gardens; Bandstands in Richmond Park and Kensington Gardens; the Lancaster Gateway, Hyde Park, and the Swimming Pool and Rackets Court at Buckingham Palace. Hospital Buildings: at Rampton, Moss Side, Leeds and Chapel Allerton. He built the Admiralty Hydrographic Department at Taunton, the Ordnance Survey Buildings at Southampton and Shorncliffe Garrison Church.

The selection of Clipsham stone to replace Barry's Anston stone in the Houses of Parliament, steadily disintegrating, was one of John Markham's responsibilities and he started the long process of restoration which still continues.

An intimate knowledge of the French language, including technical French, was one of his many skills and after the 1914-1918 War, he was appointed by the Government to arrange accommodation for the Paris Peace Conference. An early form of prefabrication, devised in collaboration with a French colleague, was his solution. He followed this by serving on building and technical committees for the International Labour Office at Geneva and the League of Nations Building and was chairman of an international sub-committee of five whose task, inter alia, was liaison with the international five architects.

After his official retirement, he designed the Cricketers' Memorial Gallery at Lords, and the Terrace Rest Precinct at Tower Hill.

John Markham was a fine draughtsman and to the end took an active and expert interest in every branch of building practice.

### Mr. Peter Gray, ARIBA

IT IS WITH GREAT REGRET that we record the tragic death of Mr. Peter Gray, the 27-year-old architect killed by a gunman in a street in Kyrenia, north Cyprus, on May 12. Mr. Gray had only a few weeks ago been transferred to Cyprus from the London office of Messrs. Tripe and Wakeham, chartered architects. It is believed that the shooting of Mr. Gray was a case of mistaken identity. Details of a fund for his widow and family are on page 935.

# The Week in Parliament

By Our Own Correspondent

## Bills Threatened with Delay

PARLIAMENT adjourns today (May 19) for the Whitsun recess until Tuesday, May 30. This is a week shorter than in recent years. It has been brought about mainly by the sheer volume of legislation which the Government have before both Houses, and secondly by the 'close scrutiny' which the Opposition have been making of Bills ever since the health service charges were raised.

At present it seems possible that the Government may have to hold over some Bills until next session, among them the Weights and Measures Bill and the Public Health Bill. The latter includes proposals for central building regulations to replace (except in London) the building by-laws made by local authorities. Both have completed their passages through the Lords but have been kept for weeks in the list of measures awaiting attention by the Commons.

The Weights and Measures Bill will need the most time for its committee stage as several hundred amendments have been tabled by MPs. The Public Health Bill will also take time but as many of its Clauses have been taken from local Acts which have been operating in some areas for years, it might not attract so many amendments.

MR. R. A. BUTLER, Leader of the House, when tackled about the legislative situation on May 11, refused to make a statement on the likely fate this session of any of the Bills now progressing through Parliament. He will probably wait to see how the Finance Bill, which embodies the Budget proposals, proceeds. The House could sit into August or come back earlier in October than is usual and open the new session in November.

The committee of MPs considering the Housing Bill was still sitting this week and the time-table for this major legislation, the pride and joy of Mr. Henry Brooke, will have to be carefully plotted if all the stages are to be completed. But this Bill, one involving major policy, is hardly likely to be deliberately delayed by the Government.

Extending the sittings during the current session would be preferred by the Government in order to avoid wasting the time spent on Bills already.

## Tall Buildings and Town Planning

IN SEEKING to stress the careful planning needed for the erection of tall buildings, LORD BOSSOM told the House of Lords on May 8 that the same mistakes were being made in Britain today as were being made in America 50 years ago, due to the fact that a comprehensive planning arrangement was not made before any of these buildings were laid out.

He asked the Government whether they would give consideration at the earliest possible time to the careful town planning of the British congested cities where tall buildings were likely to be erected, to ensure that these buildings were not constructed in places where their presence would cause not only added but avoidable and serious congestion to the existing local traffic situation.

EARL JELLICOE, who replied, said: 'The policy of the Minister of Housing and Local Government is that each proposal for the erection of a tall building should be considered by the local planning authority on its merits, taking into account, among other things, the effect of the building upon traffic. Where the planning authority grant permission for a tall building likely to generate traffic, they impose conditions designed to avoid the increase of traffic congestion, for example, conditions requiring provision of car parking space within the curtilage.'

LORD BOSSOM said they ought to plan the areas and not leave it to chance and to individual examination at the last minute. It ought to be done collectively on a very large scale.

EARL JELLICOE said he did not think this matter was left to chance. Each individual project was gone into very carefully indeed. He imagined that Lord Bossom might have in mind the recommendations of the RFA Commission in their recent report. On that all he would say was that the Ministry and the LCC would give careful consideration to the views of the Commission. As a start the Ministry were initiating discussions with the LCC about this whole matter.

## The Housing Bill Debate

AFTER FURTHER DEBATE on May 9, MR. MICHAEL STEWART said the Opposition were left with a feeling of surprise and disappointment at the figures contained in the Bill for subsidy for multi-storey building. That surprise had been echoed by a great many local authorities which had written in about it. The Minister had not satisfied either them or the Opposition unless he had further arguments to adduce.

MR. BROOKE, concluding the debate, said the plain truth was that the gap between the cost of building a two-storey house and the cost of building a flat in a tall block of flats was narrowing and not enlarging. That gap was now narrowing because they had been building houses for years but it was only really within a very short period that they had been building tall blocks of flats, except in the London area. It was also interesting that the figures countrywide did not show that the cost per unit of building a tall block of flats of 12 or 15 storeys was any higher than the cost of building a six-storey block.

The figures for 1960 for the whole country showed that for 12 storeys and over the average tender prices were £2,320 per flat. The average tender figures for 1960 for flats of six to eight storeys were £2,374. In fact, it was cheaper per unit to build high. Nevertheless under the Bill they were giving a subsidy the capitalised value of which was £27 per storey.

He added: 'I grant that no figures which we have yet are completely conclusive because the numbers of these blocks of flats are as yet not very great. What we do know, however, is that the technical advance in the building trade is proceeding very rapidly and that there is every reason to believe that the gap between the cost of building a flat in a tall block and the cost of building a two-storey house is likely to diminish rather than to increase.'

It was known, commented the Minister, that it did not cost £27 extra per storey for every storey that one went up, although the Bill provided that that would be the additional subsidy payable. The conclusion from that was that there was built into this subsidy structure an incentive to build tall blocks of flats rather than blocks of six storeys.

Mr. Brooke said he took the view that local authorities went on building the five-storey type too long and it was a very good thing that there was more experimenting with tall blocks of flats. Every treasurer who examined the figures would discover that the structure made it more attractive to build the tall blocks than a block of, say, six storeys under ordinary conditions.

What the Committee would be wrong to do was to accept the amendments of the Opposition which would so increase the additional subsidy payable that it would make it financially attractive to many local authorities to build tall blocks of flats rather than houses even though there was no need for tall blocks in the area and even though, by common consent, the building of tall blocks of flats was a more expensive way of housing people than the building of houses.

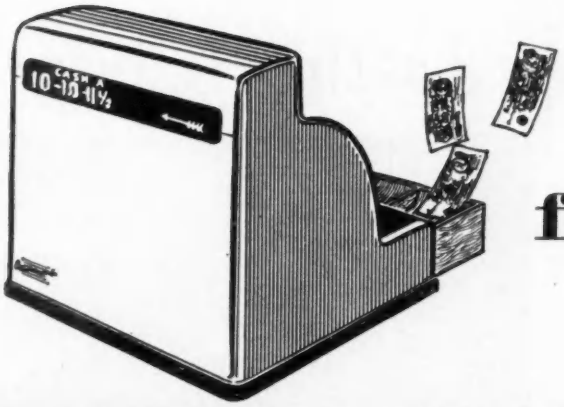
Those were the reasons why the Government must keep to the Bill as it was but he was ready to consider further information that reached him. At the moment the widely based information that he had proved that what they were doing in the Bill was about right.

The Opposition amendments were each defeated by 18 votes to 10.

## Traffic and Urban Development

AN OUTLINE of plans for London traffic was given in a statement by MR. ERNEST MARPLES, Minister of Transport, issued on May 8 when he explained that the immediate plan for the London Traffic Management Unit was to free main routes in the central area from restrictions to traffic flow, to improve the flow in selected radial and ring roads and to regulate street parking and to encourage the provision of off-street parking in the central area.

After detailing proposals for one-way routes, clearways, parking, parking meters, loading and unloading, he said that since August 1960, 374 schemes arising from local authorities had been settled by the London Traffic Management Unit. The Unit had under consideration the possibility of improving traffic signal control and in collaboration

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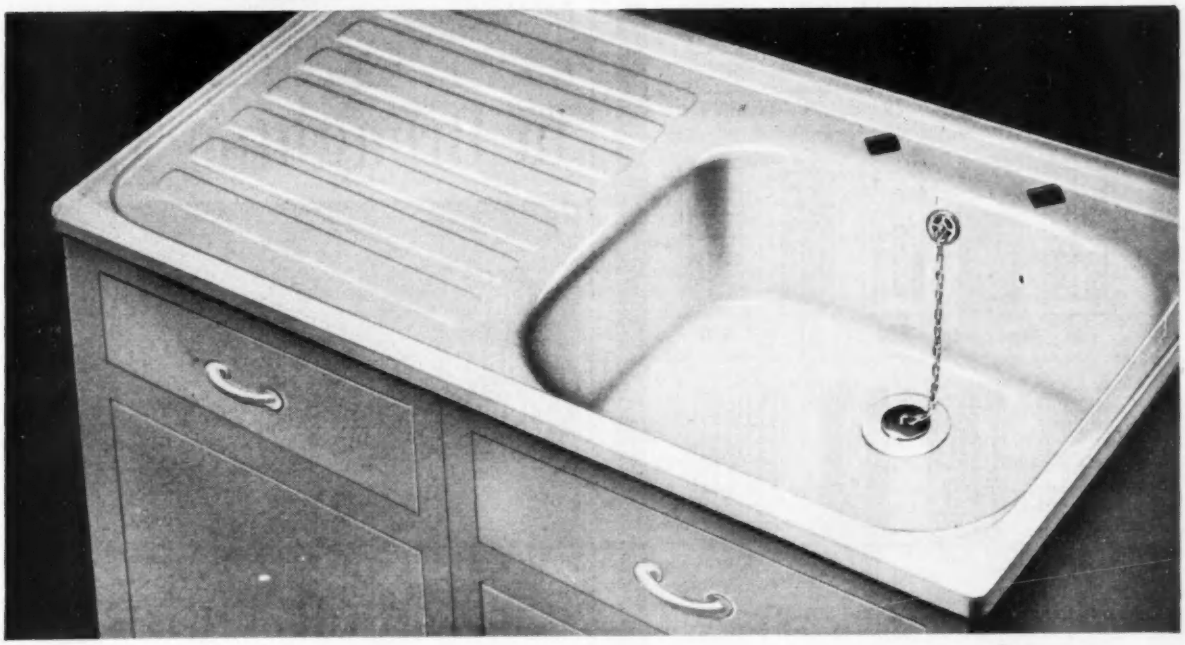

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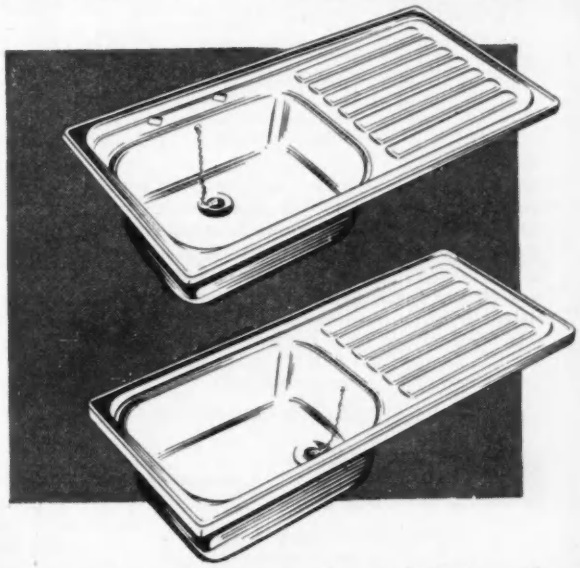

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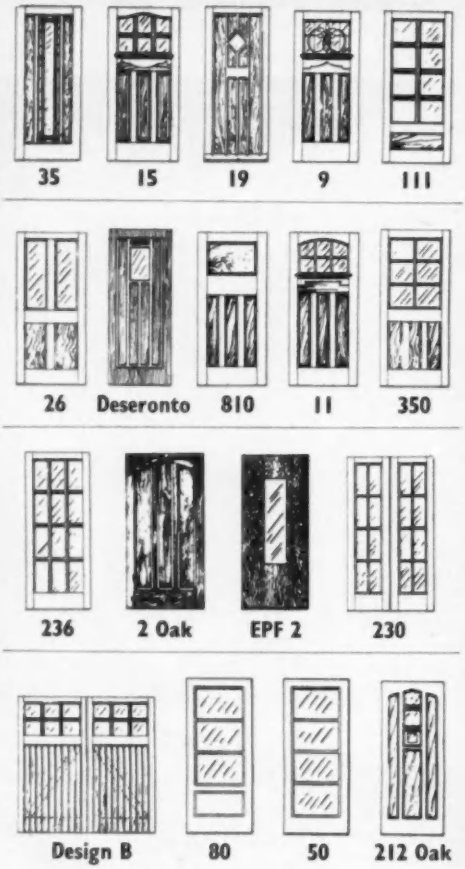


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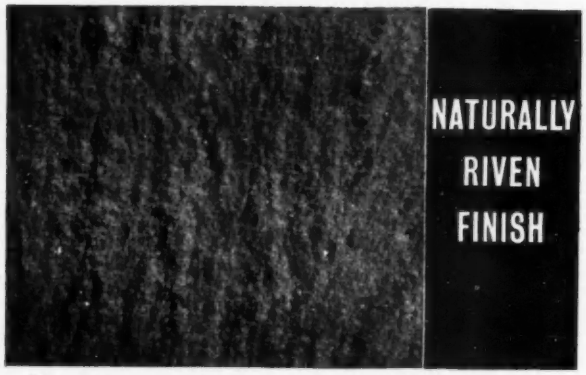


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with the Road Research Laboratory and the Commissioner of Police of the Metropolis, proposals were being drawn up for experiments in the control of pedestrians in busy streets. The forthcoming London traffic survey, which it was hoped to start later this year, would provide a sound scientific basis for planning London's future traffic needs.

Turning to long term urban development, Mr. Marples mentioned the appointment of a long-term study group under Mr. C. D. Buchanan and said: 'If the use of modern motor transport is to be carried to its logical conclusion, if our lives are to be organised entirely on a 'drive-in' basis, then our towns will have to be exploded into a completely new form. Indeed it is doubtful if they could still be called towns so great would be their spread and dispersal: examples of this can be seen today in the United States.

'Most people will probably say that this is going too far, that we ought to continue with towns broadly in their traditional form but re-designed to cater for motor transport in a civilised environment, and it is this problem that is the real challenge ahead. There is no difficulty in designing a small urban centre to cope decently with the traffic it generates; but as the size and intensity of use increases, so traffic builds up and ever more complicated arrangements are needed to deal with it.

'In the New Towns a solution has been sought on a horizontal "sorting out" with pedestrian precincts set within boundary roads; the drawback is that this needs a lot of space and has disadvantages. In larger and more densely developed areas, there seems no alternative to multi-level planning. Only in that way can we arrange the distribution of vehicles to buildings and give pedestrians room to move in safety. It means a new kind of world, but if we have the vision, it could also be a very attractive and civilised one.'

## Preservation of Villages

'IT IS A VITAL aim of planning that new buildings in villages should be carefully sited and designed so that they do not spoil their surroundings,' said EARL JELLICOE in the House of Lords on May 8. LORD BOSSOM had asked the Government whether they would consider issuing advice to all planning authorities having jurisdiction over Britain's beautiful villages, to do their utmost to prevent the beauty of these precious places being destroyed by the erection of ill-placed housing estates or inappropriate buildings in the midst of 'these irreplaceable and typically British scenes.'

EARL JELLICOE, the Government spokesman, said the Minister of Housing and Local Government believed that local planning authorities had this constantly in mind. The subject was dealt with in a booklet called 'New Houses in the Country,' which he published last year.

LORD BOSSOM said that comparatively recently the Minister had gone exactly opposite to the recommendation made to him by his own officials that he should not allow this sort of thing and had allowed it to go ahead in two particular cases.

EARL JELLICOE asked for details and said he would take them up with the Minister.

LORD BOSSOM: 'Would it not be worth while strongly recommending that further consideration be given in these cases instead of their being casually answered and let go, because we are losing something we can never replace once they have gone?'

EARL JELLICOE said the Minister believed strongly that the best way of securing improvement was by way of general advice, encouragement and education of public opinion, and he took every opportunity to encourage good design and the use by local authorities of architects and landscape architects. The Minister was instituting this year a special award with that in mind.

## Covent Garden Market Bill

A NUMBER of Conservative MPs unsuccessfully attempted to write into the Covent Garden Market Bill on May 9 an amendment which would have enabled the new market authority to look elsewhere for a site for the market.

Their attempt was strenuously resisted by MR. CHRISTOPHER SOAMES, Minister of Agriculture, who said that although the Government could have brought in a Bill which left the matter open, the siting of Covent Garden market was a big decision to take, much bigger than that on where the market annexe was to be. The Government took the view that if the market was put outside its present situation, they would have had to have given the market authority powers far beyond those in the Bill. If the amendment was accepted the House would be left with no power to say where the market should be placed. It was the Government's duty to stipulate where the market should be and they had decided the market should remain at Covent Garden. He had no qualms about believing that to rebuild the market within this area was the best arrangement.

If following inquiries and representations to them the new Authority thought the market would be better elsewhere, they could tell the Government of the day. That suggestion would then be given weighty consideration and it would involve legislation.

The Bill was read the third time. It now goes to the Lords.

## Other Business

### Pipelines Bill Withdrawn

Following a statement of Government intentions towards the development of pipelines, MR. GRANT-FERRIS, on behalf of the promoters, withdrew, on April 27, the Trunk Pipelines Bill, a private measure which sought Parliamentary permission to lay a pipeline 70 miles long between Canvey Island in the Thames and Denham in Buckinghamshire.

MR. RICHARD WOOD, the Minister of Power, said he hoped it would be practicable to introduce legislation in the next session of Parliament to provide a framework in which proposals of that kind could be dealt with.

### Investment Allowances for Industry

MR. SELWYN LLOYD, Chancellor of the Exchequer, rejected a request by MR. HAROLD WILSON on May 2 for an assurance that the Government would not propose a reduction in investment allowances for general industry during the lifetime of this Parliament. MR. LLOYD said it would of course be his purpose to try and promote investment but it would be unreasonable for him to be expected to tie his hands as he had been asked.

### Norwich University Site

MR. JOHN PATON asked the Minister of Housing and Local Government on May 2 to state the reasons for the delay in giving his decision with regard to the proposed university site in the city of Norwich which was the subject of a local inquiry by his inspector in December last; and if he was aware that this period without a decision was hampering the voluntary work of the promotion committee and placing the project in jeopardy.

MR. HENRY BROOKE wrote: 'There was a divergence of views at the inquiry about the suitability of the site proposed for the university, and several other sites were suggested. It has necessarily taken time to weigh all the evidence and arguments put forward by the interested parties. However, I realise the urgency of the matter and hope to be able to announce my decision very shortly.'

### Encouraging Industry in North-East

MR. PAUL WILLIAMS asked the President of the Board of Trade, what success he had had in bringing new industry to the North-East since the introduction of the Local Employment Act.

MR. NIALL MACPHERSON, Parliamentary Secretary: 'Since the Act came into force we know of nine new firms which have decided to come into the area. The Act also of course benefits firms already in the area who wish to expand. There are about 10,000 new jobs in prospect in the development districts in the North-East.'

### Resale of Land and Buildings

MR. STEPHEN SWINGLER asked the Minister of Housing and Local Government on May 2 to issue a directive to local authorities to the effect that where land and buildings were purchased for the community's benefit they should not be resold to private individuals for the purpose of profit, contrary to the purposes for which he had given approval.

MR. BROOKE wrote: 'I have no power to issue such a directive, but in general local authorities have power to sell land and buildings only if these are surplus to the purposes for which they were acquired. My consent is required if they are to be sold at a price less than the best obtainable.'

### Bills Through Commons

The Rating and Valuation Bill and the Department of Technical Co-operation Bill completed their passages through the Commons on May 10.

# Trade and Technical Literature

## Result of Manufacturers' Competition

ANNOUNCING the results of the 1961 Manufacturers' Trade and Technical Literature Competition, sponsored jointly by the Royal Institute of British Architects and the Building Centre, London, the assessors state that the standard of entry generally was higher than in former years. The growth in the volume of entries, though still small, was satisfactory—this year some 106 manufacturers submitted 198 pieces.

The assessors, Mr. George Grenfell Baines, OBE, FRIBA, Mr. Bruce Martin, ARIBA, Mr. Roger Walters, ARIBA, AMIStructE, and Mr. Bryan Westwood, FRIBA, drew the attention of the entrants to the importance of studying conditions, repeating a sentence from their report on the 1959/60 competition. In it they said: 'We noted that good typography and good information did not always go hand in hand. When they did the result was sometimes spoiled by the bad organisation of the material provided.' The assessors noted also a tendency to produce 'luxury' literature and warned manufacturers against being led astray in this way. It was not necessary, they said, to be luxurious to be informative.

Finally, it was stated that despite the increase in the number of entries, the number of firms taking part in the competition was small compared with the total number producing goods for the industry. It was noticeable, however, that most of the leading firms did in fact take part. In view of its role in the campaign to promote improvements in trade literature, the assessors recommended that the series of competitions be continued.

The entries will be exhibited at the Building Centre, 26 Store-street, London, WC1, from May 24 until June 10. Certificates will be presented to the winning competitors by Sir William Holford, MA, PRIBA, at a meeting to be held at the Building Centre on May 24.

The result of the competition was as follows.

*Group Ia:* Certificate of exceptional merit, Alumin Building Components Ltd. Certificates of merit, Arco Flooring Ltd., Armstrong Cork Co. Ltd., Leeds Fireclay Co. Ltd., Morris Singer Co. Ltd., Redland Tiles Ltd., Truscon Ltd., and Universal Asbestos Mfg. Co. Ltd. Honourable mentions, British Plaster Board (Mfg.) Ltd., Courtney Pope (Electrical) Ltd., Hickson's Timber Impregnation Co. (G.B.) Ltd., and Marryat & Scott Ltd.

*Group Ib:* Certificate of Merit, Gyproc Products Ltd.

*Group Ic:* Certificate of exceptional merit, Falk, Stadelmann & Co. Ltd. Certificate of Merit, Universal Asbestos Mfg. Co. Ltd. Honourable mentions, Adamsez Ltd., and General Electric Co. Ltd.

*Group Id:* No awards.

*Group II:* Certificates of merit, Esso Petroleum Company Ltd., Federation of Coated Macadam Industries, Langley London Ltd., and Pilkington Brothers Ltd.

# Recent Land Sales

## *High Value of Sea Front Site*

FROM A PROPERTY CORRESPONDENT

SITEFINDERS LTD. report the sales of the last remaining sea front site for flats at Bexhill ('The Capitola') at a price equivalent to £61,500 per acre; also an industrial site at Branksome, Poole, at a price equivalent to over £10,000 per acre. They have also acquired on behalf of clients (Realton Property Consolidated) several acres at East Grinstead, Sussex, at the rate of £1,500 per house plot; and on behalf of the Rodwell Group Ltd. an office site in Marsh-st., Bristol, with planning permission for approximately 70,000 sq. ft. of offices, at £65,000.

A property with 4½ acres, having planning permission for residential development, 'Coombe Drove,' Maudlin-lane, Steyning, was sold at auction by Mr. H. J. Burt, for £27,000. A coachhouse and stable, formerly belonging to Derby House, Colchester, with planning permission to convert to a residence, was sold at auction by Reeman & Dansie for £1,500. The 7¼-acre building site, with planning permission for 188 flats in 5-storey blocks, on the Church Farm Nursery site, Rustington, Worthing, was sold at auction by Mr. Peter Sturgeon (on behalf of New Ideal Homesteads) for £75,000.

Messrs. H. H. & J. Robinson's auction of building sites at Blundellsands included the sales of 2,000 sq. yd in Park-drive for £2,225; 1,750 sq. yd. at £2,500 and 1,550 sq. yd. at £2,100 on Serpentine; and 1,800 sq. yd in Burbo Bank-rd. at £1,525—all on 999-year leases.

Clifton Ranger & Co. report the sales of 24 acres in Chalet Hill, Headley-rd., Bordon, Hampshire, for £58,000—230 houses and six types of bungalows are to be erected, and the development will be known as the Heather Springs Estate. They are also concerned in the sale of a property in Thurlow Park-road, West Dulwich (near the College), where an imposing residence is to be demolished and a four-storey block of twelve luxury flats, to sell at £4,250 per unit, is to be built and known as Rosalind Court. Clifton Ranger & Co. also acquired for clients 11¼ acres in Head-lane, Sudbury, Suffolk, at £19,500, where it is proposed to erect 100 semi-detached houses. Other sites bought for clients by the same firm include 5 acres at Upper Norwood, for the erection of luxury three-storey town houses, the price being nearly £100,000; and 2½ acres near the centre of Richmond, Surrey, for £50,000, zoned for between 70 and 80 luxury flats.

### 'Bond of Service'

THE Cement Marketing Company Ltd., a subsidiary of the Blue Circle Group, which claims to be the largest cement manufacturer in the world, has produced a film dealing with the manufacture and development of cement. Entitled 'Bond of Service,' work on this film began in 1960 and covers several aspects of the Group's activities, including research, demonstrator service, distribution and export. An enormous crusher at Hope is seen in action, and the different processes used at the post-war works at Cauldron and Shoreham are depicted. It lasts for a period of 30 min.—adjudged to be the right amount of time for a film of this sort.

# Tower Bridge Strengthened

## *High-Level Girders Repaired*

EIGHTEEN MONTHS' skilful and complicated work to strengthen the high-level girders of Tower Bridge has just been completed at a cost of £50,000. The girders are between the tops of the main towers. They carry the 300 ft. horizontal ties—each weighing 68 tons—which connect the shore span chains. Ever since the bridge was opened in 1894 the girders have suffered increasingly from corrosion due to their exposed position.

It was essential that while the girders were being repaired they should not be under load. So the heavy ties—still under a tension of 1,700 tons each—were carefully lifted up on two pairs of cables. Both pairs of cables passed through holes in the turret stonework and were anchored to a jacking arrangement welded to the ends of the main tie. The weight of the outer girders was then jacked on to the less corroded inner girders using a series of cross-frames and 40 'Freyssi' jacks. The unstressed girders were then repaired by adding new steelwork, and then the whole process of transferring the load was repeated in reverse.

The erection of the temporary suspension cables called for very accurate measurement and care, as a 1 per cent error in the cable stresses would have seriously and dangerously deformed the ties, and measurements to 1/10,000 of an inch were taken during the jacking and transference of load. To avoid unnecessary vibration the holes cut in the tower stonework for the cables were drilled with 12 in. diameter diamond-faced cutters.

The consulting engineers appointed by the City Corporation were Mott, Hay and Anderson, and the work was carried out by Joseph Westwood & Co. Ltd., of Millwall.

### Open Day at SE London College

AN OPEN DAY is to be held at the department of building and structural engineering of the South-East London Technical College, Worsley Bridge-road, Lower Sydenham, London, SE26, on June 1. The official opening ceremony will be performed by Mr. E. L. Jones, MBE, vice-chairman of the college governors. The Open Day is a contribution to the Commonwealth Technical Training Week (May 29 to June 4).

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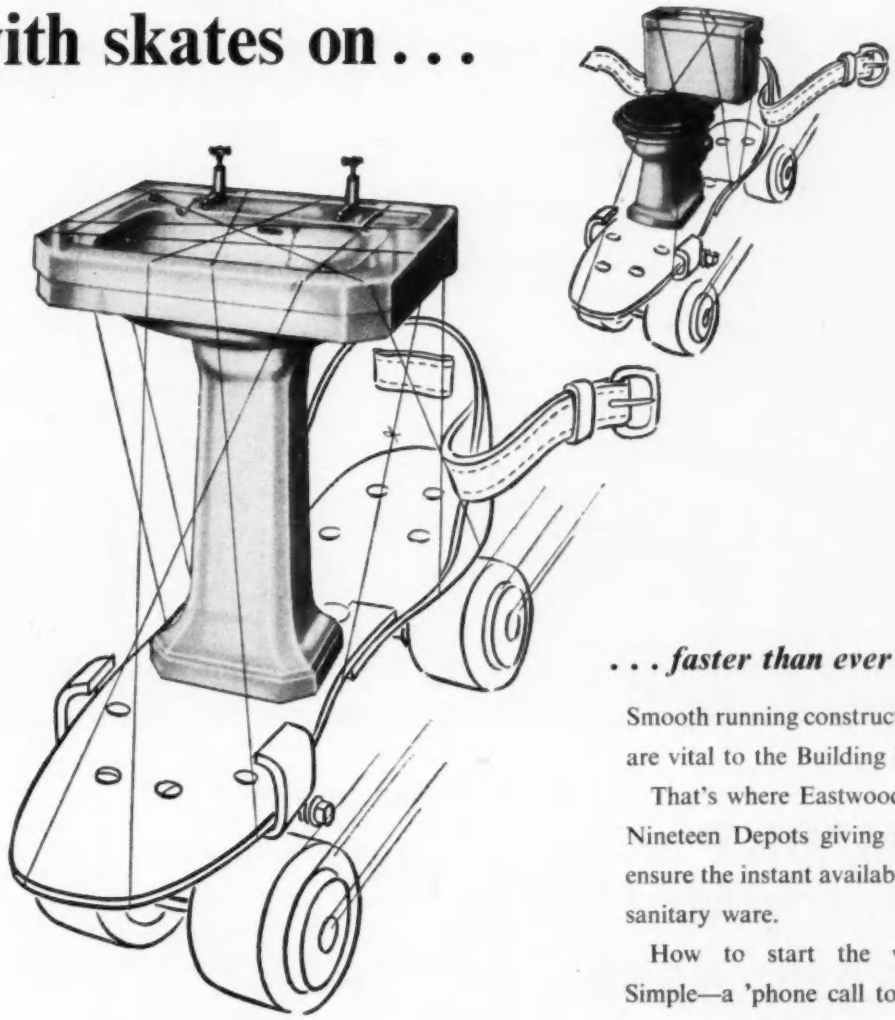

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# Planning High Wycombe

## Some Construction Proposals

MUCH of the ancient Borough of High Wycombe, Bucks, particularly in the town centre, has to be replanned and redeveloped in the next few years. The High Wycombe Arts Association, which is taking a very active interest in this matter, has just produced a booklet* from articles written by its chairman, Lt.-Col. Lesslie K. Watson, MBE, TD, MA, FRIBA, AMTPI, for the *Bucks Free Press*, with an introduction by the editor, Mr. Arthur H. Church. In ten brief but clearly-written chapters this booklet goes carefully into the many questions of preservation and replanning involved and makes numerous constructive proposals. 'The town planning law and administrative machinery in this country,' writes Col. Watson 'are probably the most comprehensive in the world. . . . But for all our elaborate "set-up" good results do not follow automatically. They come only from good leadership, teamwork and an unswerving determination to succeed. None of these things exist in High Wycombe at present,' though an official design for an Inner Relief Road and a Pedestrian Shopping Centre has been prepared which is stated to be 'a great step forward.'

The booklet includes a plan (here reproduced) illustrating some of the principles which the Arts Association believes to be worth more detailed study. Following are a few of the more important points. The Inner Relief Road, it is stated, will certainly speed up the movement of the east-west through traffic; but if the official high level scheme is adopted this will cause some traffic to use the High-street which would not otherwise have done so. It is considered that through traffic should be eliminated from the High-street by closing the road near the Guildhall. Shops and offices in the street could still be approached by car from the east end. Traffic would use a North Relief Route instead of the High-street which would then become much safer and more pleasant for pedestrians bent on business or pleasure.

Half of the North Relief Route would be new and half existing. The new road would follow the line of Birdcage Walk, south of the railway, and join on to Stuart-road to connect with London-road at the same place as the Inner Relief Road. This road would enable traffic bound for Amersham Hill to avoid the town centre. It would be cheap to make, as most of the land is back gardens, and it would open up valuable land for building. There is no reason why building here should not be high.

### The Railway Station

High Wycombe Railway Station is ready for modernising and the Arts Association would like to see a much larger station yard, entered from the new Birdcage-road. The North Relief Route would then follow the line of Castle-street (which should be widened on the north side without touching the Vicarage), Church-street and Oxford-street.

The Inner Relief Road is shown taking a gentle curve by the Rye with one carriageway outside the present school boundary, the other within it, the existing trees being preserved. A car park is suggested at the end of the Rye, separated from the Relief-road by a stretch of water. A footbridge from the car park could be approached by ramps at each end to make it easy for pedestrians to cross into the town. New trees would be planted to screen the car park from the Rye.

A fundamental difference from the official scheme is that if room could be found north of the Inner Relief Road for the bus station there would be no need to elevate this section of the road to allow pedestrians to cross beneath it, and much money would be saved. In order to obtain such a site the compulsory purchase order would have to be extended to take in land up to Oxford-street. The site for the bus station is shown astride White Hart-street. The cost of land acquisition would be very high, but it is thought that the value when redeveloped would be even higher.

The Arts Association's scheme provides for direct communication from Frogmoor to Desborough-road, which is impossible in the official scheme. A triangular island block is shown round which traffic would circulate freely in one direction

Shopping and business are well provided for, together with a civic area, and the plan includes a riverside walk. The height of all proposed new buildings is indicated, together with the positions where tall buildings would look well, prove attractive to the developer and give shape to the town. The more important of the listed old buildings are shown, though there may be others in the High-street not shown in detail.

'The final word,' the booklet concludes, 'will never be said; the town will continue to change for as long as it exists. The ideas put forward by the High Wycombe Arts Association are the result of much hard thinking, and we can only hope that some of them may bear fruit.'

* The Manor House, West Wycombe, Bucks. Price 1s. 6d.

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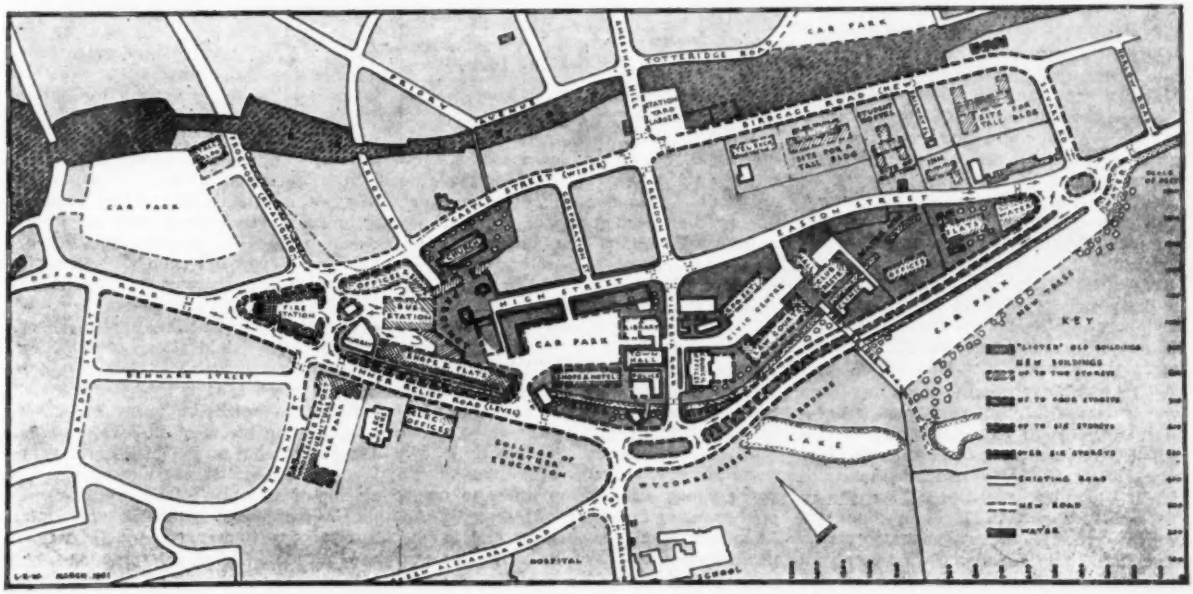
**Barracks Rebuilding at Aldershot**

ANNOUNCING the Army's building plans for the Aldershot area, Major-General D. S. S. O'Connor, general officer commanding Aldershot district, stated on May 2 that all pre-1914 barracks in the area are to be rebuilt in a seven-year £10m. programme. The programme includes 17 new barracks and about 1,000 married quarters.



# Looking Ahead in the Building Industry

## Sir Keith Joseph's Address to the Institute of Builders

A WIDE-RANGING ADDRESS on the prospects and needs of the building industry was given by SIR KEITH JOSEPH, MP, FIOB, Parliamentary Secretary, Ministry of Housing and Local Government, at the annual general meeting of the Institute of Builders held in the Royal Festival Hall Recital Room, London, on April 19. Mr. G. O. Swayne, the President, occupied the chair. We take the following extracts from Sir Keith's address.

I was going to concentrate this morning, said Sir Keith, on drawing the conclusions in a period of break-through for the construction industry on site management. I had prepared a splendid talk; it was going to be about the underestimated role of the general foreman, how he has to be leader, judge, psychologist, diplomat, cost expert, construction expert, driving force, tactician and all these other things; and I thought it might be a lesson that needed to be hammered home. Then I find that the admirable Mr. Peter Trench did it all last week! It certainly read splendidly in 'The Builder.' So I had to tear that up and think of a new talk.

### Housing and Redevelopment

At the moment 10 per cent of the acreage of England and Wales is developed. Taking into account all the demands that I have mentioned, and looking 20 years ahead, we expect that that 10 per cent will grow to—not by—12 per cent. So far as we now can, it is the Government's policy to keep new development as rigidly separated as possible from the country.

At the moment the building industry is concentrating on building houses for sale. But the building industry, I am sure, recognises by its constant pressure upon us that the green fields in the areas of popular demand will run out before too long. Of course, there are other areas that are not so popular now where popularity may have to turn because only there will the green fields be available, and you all know great sections of this country where at the moment prices have only risen equivalent to the fall in the value of the £, and where there has been no great premium because of popularity and rising demand; those areas which are relatively ill-served by transport, but no further away from the great cities than the popular area, may well come next. But wherever building occurs outside the great cities, there is the problem of the journey to work, and that is why I ask the members of this audience and the members of the building industry to think again and again of the trend ahead.

I know all the odium attaching to the word 'landlord'; I know that a generation and more of rent control has scared developers off the old and profitable practice of building decent accommodation to let, but one day our cities will have to be redeveloped, and the building industry will find that task a proper and a profitable one. The areas where rent control still sterilises development are often the most valuable areas in whole cities. They lie round the centre in what has been appropriately called by Sir William Holford 'a twilight ring.' They are close to the centres of entertainment, they are close to the working areas, and as planning establishes its principles, as it is irrevocably doing in every part of the country, those areas will come to have much more open space and be more desirable to live in. These are the areas that one day will make very desirable living areas again.

The Government and my Minister particularly believe there is a demand for houses to let at market rents already. We are backing our judgment, as you know, in the new Housing Bill by a £25m. loan fund from the taxpayer to housing associations. We believe that housing associations have an increasing part to play in housing people on a non-subsidised, non-profit basis, but we also believe that if housing associations take up this challenge, and we have every reason to think they will, and show that there is a very, very big demand, a bigger demand than they can meet for houses to rent at unsubsidised though non-profit rents, the building industry will recognise that there is a huge market waiting for them too at the same sort of level but with a reasonable margin of profit. Creeping decontrol alone will almost remove rent control, even if there is no prior intervention by any government, in a matter of 10 to 15 years.

Builders do now normally concern themselves with shops, offices and that sort of development, too, and I would have liked the time to discuss urban renewal. But make no mistake, a huge contribution to urban renewal would be made by tearing down the decayed twilight areas of the cities and rebuilding them, probably piecemeal but to a consistent plan, as decent rented accommodation for the next generations.

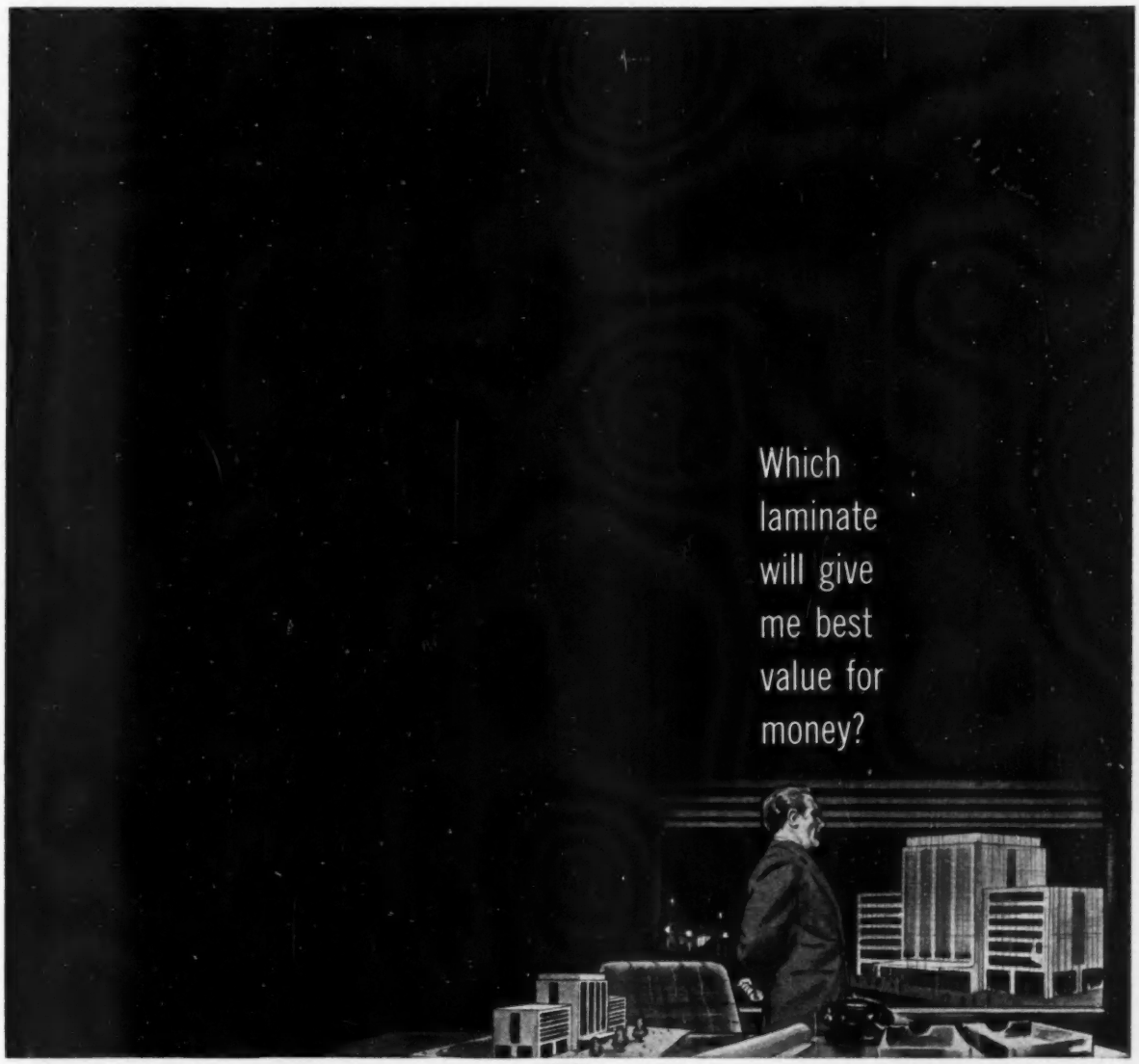
### Training for the Building Industry

The principal difficulty, it seems to me, that our industry faces in a condition of break-through is that there will be an intensely increasing competition for talent at all levels. To get our share of university, grammar school and good modern and technical secondary school output will require the most attractive training schemes. The industry will need to be on its toes if it is to secure its rightful share of graduates and grammar school leavers. It is easy to sit back and say that one result of the rising population and of the bulge will be for more grammar school and secondary school boys to come on the market and that enough of these will find their way into the building industry. The truth is that there are now so many attractive careers and training schemes on offer, so many opportunities for the brighter boy in the scientific world, in business and in the professions that if the industry does not have something pretty positive to offer it is likely to be left out in the cold. One cannot stress too much these days the importance of having a good training scheme to offer which the intelligent and industrious can recognise and hope to climb. Fortunately, the building industry has had the foresight to provide a number of training schemes. The foreman level is absolutely vital. There is also the same sort of need for gangers and charge-hands to be trained. When a particular job on a site requires, according to work measurement experts, 4¼ or 4½ men, upon whom does it depend as to whether, in fact, that job gets done by four or by five men? In the last resort it depends upon the ganger and the charge-hand. The size of the gang and the continuity of the gang's work—which are so vital to building productivity—depends on site planning and upon incentive schemes to some extent but also substantially upon the non-commissioned officers of the industry. These NCOs should be craftsmen and labourers who have a modicum of leadership and personality but they must be able to climb the whole ladder upwards, training their successors as they climb.

### Complex Problems

Then there is the huge question of crafts and apprenticeships in a break-through society with so many opportunities open to the bright boy. A whole complex of problems is involved in the task of providing the industry with properly qualified and trained journeymen. The larger builders seem to incline to more specialised training, the division of carpenters and joiners into joiners plus woodcutting machinists and carpenters to include specialists on concrete form work and shuttering, while the smaller builders have a different requirement—people who are more generally trained and who perhaps need a knowledge of all the crafts or at least a division of them on a broad basis, say, the trowel crafts and the wood crafts.

This tendency to break down the old 'broad front' jobs into more and more pockets of specialisation, whilst it may be an unavoidable development in this day and age nevertheless presents its problems to the educationists. If there is to be this fragmentation of training and of training needs it is likely to add greatly to the problems of the technical colleges in putting on courses and finding appropriate teachers, but if this is something which has come to stay then the technical colleges will have to try to provide for it. The situation may well call for a new approach from the industry—to find means whereby students can be brought together in large numbers, perhaps on a regional basis or under schemes whereby they could attend block release or sandwich courses. It is important to bear in mind that it is difficult for the colleges to work in terms of 'penny numbers' in terms of students and it is a sad thing that some courses are withering for lack of adequate support. The closing of a number of classes because of the lack of pupils would be very unfortunate at a time when the industry is needing more skilled craftsmen and more management staff. Site management in-

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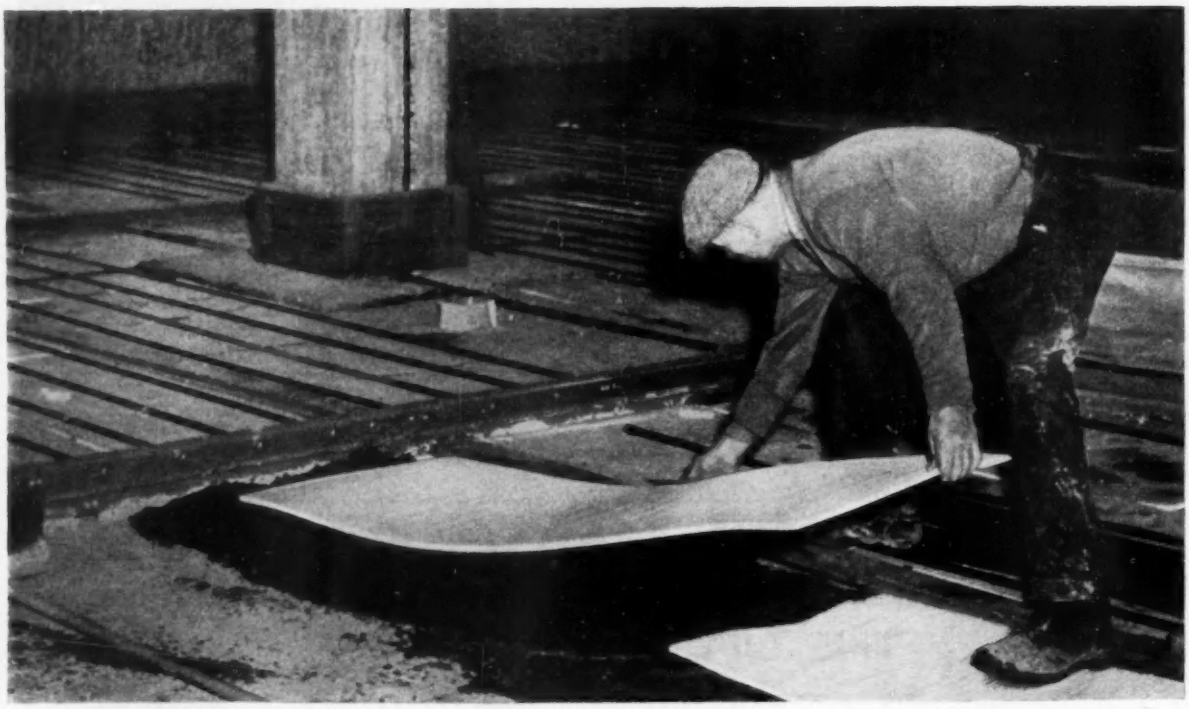

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efficiency—inadequate foremen, gangers and charge-hands—will stand out more and more as the break-through approaches and comes into being and will put off all but the most dedicated or those with the least choice.

### Research

At the moment we think of research in terms of research for our own relatively narrow compartment. Research by a firm, particularly by its own people on its own products or processes, is not enough and research even by the manufacturing or the constructing or the designing side of the industry cannot be enough. There have been many lectures about the interaction of design and materials and construction techniques upon each other. They are all so linked that the only dramatic results can come from research directed to the whole building process. What may be needed is an invasion of the entire industry by inspired and sceptical boffins. There are such boffins today and they go by the name of operational research workers. At the moment the shameful position is that operational research is a technique which is used far more by the Government which pioneered it than by so-called enterprise on the private side of industry. I would suggest that if the industry as a whole—construction, materials and design—were to employ a team of such a sort which had complete access over a number of years and upon which there was laid an obligation to publish their findings there might come out at the end, in a matter of five or ten years, not a series of solutions so much as a series of comments showing where solutions are specifically needed. The initiative to set up such a team and to release it on to the industry would have to come from all the representative bodies combined and the results would have to be available to all. They would probably be in the form of observations on the costs of current practices compared with the probable costs of possible alternatives.

The industry has a large number of reforms to face before it will be able to attract its share of talent both on the site and in management. I suggest that only from such a high-powered initiative will radical ideas directly or indirectly emerge with sufficient evidence of value to be forced on the serious consideration of all.

Sir Keith then replied to a number of questions put to him by members of the audience.

MR. HARRY VINCENT proposed a vote of thanks to SIR KEITH, which was carried with acclamation.

# Grants for Historic Buildings

## Twelve Privately-Owned Properties Listed

THE MINISTER OF WORKS on April 27 announced the award of twenty-two grants for the repair of buildings on the recommendation of the Historic Buildings Councils of England, Scotland and Wales. The grants are authorised under the Ancient Monuments and Historic Buildings Act of 1953. Fifteen are for country houses, though only ten of them are privately owned; seven are for properties in village and town, two only of which are privately owned. The list includes two cottages at Mells in Somerset which are of considerable importance as being part of a planned medieval village, now almost entirely owned and being cared for by the Earl of Oxford and Asquith.

Three houses, two in Scotland, have literary connections. The forerunner of the existing Antony House at Torpoint, Cornwall, was the home of Richard Carew, local historian and poet, and the property has been owned by the same family for five centuries. Abbotsford at Melrose is renowned as the home of Sir Walter Scott and is one of six buildings on this list which has had a previous grant for repairs. The other building referred to is Carlyle House, Haddington, though in this case it is the novelist's wife who is most closely associated with it.

Among the great country mansions in the list are Belton House, Lincolnshire, one of the best examples of a country house of the age of Wren; Blickling Hall, and Oxburgh Hall, Norfolk, both owned by the National Trust as is Stourhead, Wiltshire, a Palladian mansion by Colen Campbell with landscape gardens of exceptional beauty. Of the five properties which are owned by local authorities Tamworth Castle, possibly, is the most impressive and ancient. Certainly it is the only one that claims to possess a ghost.

Since their formation in 1953 the Councils have considered 3,577 applications for aid and the number of buildings for which grants have been accepted totals 773, the aggregate value being almost £3,300,000. A condition attaching to every grant is that the public shall be given reasonable access to visit the properties concerned.

The twenty-two buildings are:

ENGLAND.—The Chapel, Bramham Park, Boston Spa, Yorkshire; Althorp Hall, Northamptonshire; Aynhoe Park, Northamptonshire; Belton House, near Grantham, Lincolnshire; Blickling Hall, Aylsham, Norwich, Norfolk; Hengrave Hall, Bury St. Edmunds, Suffolk; The Guildhall, Hadleigh, Suffolk; Oxburgh Hall, Kings Lynn, Norfolk; Boston Manor House, Brentford, Middlesex; Willmer House, West-street, Farnham, Surrey; Antony House, Torpoint, Cornwall; Corsham Court, Corsham, Wiltshire; 1 and 2 New-street, Mells, Somerset; Stroud Subscription Rooms, Gloucestershire; Stourhead, Stourton, Wiltshire; Tamworth Castle, Staffordshire; The Orangery, Blithfield Hall, Admanston, Staffs.

SCOTLAND.—Abbotsford, Melrose, Roxburghshire; Carlyle House, Haddington, East Lothian; Culzean Castle, Ayrshire; Hopetoun House.

WALES.—Egryn Abbey Farm, Llanaber, Merionethshire.

# Cost of Cement

## Discussion in the Restrictive Practices Court

FROM A LEGAL CORRESPONDENT

THE SUPPLY OF CEMENT is of particular interest to builders having regard to the fact that rather more than one-third is used for housing, more than a quarter for factories and one-fifth on public works. It is therefore interesting to read the discussion in the Restrictive Practices Court in the case Re The Cement Makers' Federation Agreement on the agreement between members of the Federation in relation to the supply of cement, principally ordinary, rapid hardening and low heat Portland cement.

The price system is based on proximity to or distance from cement works within the group. The base price is fixed for cement delivered within a 5-mile radius and prices are increased correspondingly until the concentric circles of radii meet those from other works. As cement only constitutes a relatively small proportion of the cost of buildings, say 3 per cent, therefore the demand for cement is not easily affected by price changes.

An independent costs committee was appointed none of whom had a financial interest in the cement industry and whose recommendations were normally accepted. The system employed was upheld by the Restrictive Practices Court. The points they considered were:

The court felt that the present procedure was economic and on balance resulted in lower prices than would obtain if there was not a common price agreement. They felt that they had sufficient assurance in the offer to supply the registrar with information that the methods of conducting the common price agreement would be similar in the future. The fact that there was some transport subsidy which reflected slightly to increase prices nearer the works did not outweigh the general benefit. In addition merchants' margins and special rebates to cement asbestos manufacturers were reasonable but the court declared as contrary to public policy, the system of general rebates to large purchasers and merchants.

Price restrictions on the sale of cement as subsidiary to the main purposes of the restriction were permissible except that restrictions prohibiting contracts for the supply of cement for periods of 12 months were held to be contrary to public policy.

While accepting in principle the use of an independent costs committee the court felt that the committee should before reaching their conclusions have additional information on such points as (a) the costs of individual works operated by multiple makers; (b) the basis of depreciation of individual makers; (c) the amount of capital employed as a whole or sub-divided into loan preference and equity capital; (d) further consideration as to export trade and manufacture of special cements. The court were, however, satisfied that despite lack of information on these points the results achieved by the committee were fair.

# British Cast Concrete Federation

## Marked Progress in Many Sections of the Industry

THE ANNUAL GENERAL MEETING and luncheon of the British Cast Concrete Federation was held at the Dorchester Hotel, London, on April 18, more than 90 members, including four representatives from the Scottish Precast Concrete Manufacturers' Association, and 17 guests attending.

In proposing the toast of 'Our Guests,' the chairman, MR. R. F. FEARNLEY, said that the past year had been notable for a considerable concentration on standards of quality and the BCCF had been deeply involved in assisting with the revision and preparation of some 25 new Standards and Codes of Practice. The new Code for Structural Precast Concrete in Buildings was being formulated in conjunction with the Institution of Structural Engineers to whose president, Lt.-Col. G. W. Kirkland, he extended a welcome. Recommendations had been reached concerning cladding slabs and would be embodied in a new edition of the CACA's publication on Facing Slabs and recommendations had been agreed by the industry for small sections of cast stone which would shortly be discussed with the RIBA, whose vice-president, Sir Hugh Casson, they were delighted to have with them.

### The Industry Reviewed

In responding to the toast, the HON. LEO RUSSELL said he wished to take the opportunity of reviewing the position of the concrete products industry as he saw it, and he made the following points:

*Prospects.*—He thought these had never been brighter and that all factors clearly pointed to an increasing demand. His only doubt was whether the industry was sufficiently geared up to take full advantage of the situation.

*Competition.* — Notwithstanding the many natural advantages which concrete products had in respect of economy, fire resistance, etc., he considered that strenuous efforts were required to maintain and improve standards of design and service.

*Design.*—'It seems to me,' Mr. Russell said, 'that concrete has a very special advantage over other materials because, in its plastic state, it can be moulded to any required shape. It is—or should be—the architect's and designer's dream, and as an industry you cannot do enough to interest architects and engineers in its unlimited possibilities. The technical problems of surface finish and texture of concrete have been largely overcome. Apart from this, design is primarily a matter of form and shape, and in this respect concrete is unrivalled.'

*Concrete blocks.*—'The CACA,' Mr. Russell said, 'feels that concrete blocks have a great potential market in this country, both on account of the shortage of bricks and on account of their obvious natural advantages. If they are to be readily accepted by architects, however, a great deal more must be done to make them more attractive to look at as well as technically sound and competitive in price.'

*Large walling units.*—'Looking to the future I cannot help feeling that one of the most important developments from the point of view not only of the concrete products industry but of the whole of the constructional industry is the large walling unit, both for loadbearing and for cladding.'

### Election of Officers

The following officers were elected for the ensuing year:

*Chairman:* E. F. Wettern (Mono Concrete Co Ltd.); *Vice-Chairman:* S. Browning (Trollope & Colls Ltd.). *Members of the Council, in addition to the above:* O. A. Aisher (Marley Tile Co. Ltd.), G. K. Allen (Tarmac Vinculum Ltd.), R. H. Bates (Ferroconcrete (Lancs.) Ltd.), J. Beattie (Costain Concrete Co. Ltd.), E. S. Behn (Forticrete Ltd.), J. F. Bradford (F. Bradford & Co. Ltd.), K. D. Coe (Limmer and Trinidad Lake Asphalt Co. Ltd.), J. S. Dickinson (Samuel Tyzack & Co. Ltd.), R. F. Fearnley (William Prestwich & Sons Ltd.), M. Girling (Girlings Ferroconcrete Co. Ltd), L. T. Gordon (Bradleys (Concrete) Ltd.), J. L. Goddard (Cambrian Concrete Co. Ltd.), F. L. Hopkins (South Coast Cast Concrete Co.), C. P. Howden (Hull Concrete Stone Co. Ltd.), H. W. Hutchings (Wharf Lane Concrete Co. Ltd.), D. H. Marshall (S. Marshall & Sons Ltd.), D. McGee (Hilcrete Ltd.), H. G. Mullard (Cowley Concrete Co. Ltd.), J. W. Panton (Croft Granite, Brick & Concrete Co. Ltd.), G. Oyler (Concrete (Scotland) Ltd.), G. R. Saunders (Saunders (Ipswich) Ltd.), W. H. Tolley (Devon Concrete Works Ltd.), W. H. Waring (Warings (Contractors) Ltd.), E. Williams (British Fram Construction Co. Ltd.), J. Wylie (Scottish Construction Co. Ltd.), Col. A. F. F. Young (Redland Tiles Ltd.).

Mr. R. H. Bates was re-elected as President and Mr. E. L. Cotterell as Vice-President.

# Heating and Ventilating Research

## *Association's Second Annual General Meeting*

MR. M. J. GARTSIDE, chairman of the Heating and Ventilating Research Association, presided at the second annual general meeting which was held at Caxton Hall on March 29; 24 members were present.

Moving the adoption of the report of the Council which had previously been circulated to members, the chairman said that the majority of the members had accepted the new regulations governing subscriptions although these had meant an increased contribution in most cases. Increases were always unpopular but the Council had made a decision which it had believed to be necessary for the continued constructive and enthusiastic advance of the Association.

Presenting his report, MR. N. S. BILLINGTON, the Director, outlined the policy of research. The Association, he said, was trying to pursue a balanced programme designed to benefit as many members as possible, and to improve the standards of the industry as a whole. Whilst the Association did not yet claim to lead all the industry in knowledge except upon certain topics it was in a position to give some advice to all its members, although the availability of its technical advisory service appeared still to be insufficiently widely known.

The chairman of the finance and membership committee, MR. H. DUFF, reported that the number of members had increased by 15 to 275. Subscription income had increased by £3,500 to £16,800 which had earned £11,000 in Government grant. The expansion of the Association's activities had absorbed the entire increase and the income and expenditure account showed a surplus for the year of £173.

To give more members a voice in the affairs of the Association, the Council had recommended that its numbers be increased. With the consent of the Board of Trade a special resolution was passed, amending the articles of association to permit an increase in the maximum number of elected members of the Council from 21 to 30.

The following were elected to fill vacancies on the Council: Messrs. R. W. Anderson, L. W. Andrew, H. E. Baker, C. S. K. Benham, OBE, J. M. Cooling, A. Davey, C. H. Goodwin, K. W. Groves, D. J. Hyam, H. J. Moore, G. H. Vokes, F. R. L. White, and D. S. Woodley.

# Sustained Load Strength of Timber

## *Rapid Method of Calculation*

SYSTEMATIC study of the elastic and other mechanical properties of timber—a subject of vital concern to the structural engineer—has only been conducted during the past 30 years. In this period important work on the behaviour of timber as a material under stress has been carried out in this country by W. W. Barkas and in Russia by F. P. Belyankin and Yu. M. Ivanov. The British investigator considered timber as a gel, whereas the Soviet workers viewed it as a viscous-elastic and viscous-elastic-plastic medium, ascribing such properties to the main mechanical element of its cellular structure, i.e., the middle layer of the secondary wall. In 'The Sustained Load Strength of Timber,' by H. Tottenham, MA (TDA Research Report E/RR/11), timber is considered as an ideal viscous-elastic medium. Various criteria for breakdown are considered and the Coulomb Hypothesis, that breakdown occurs when a critical strain is reached, is found to be in agreement with present experimental data. On the basis of this hypothesis, the author of the paper suggests a rapid method of determining the sustained load strength of timber.

The report can be purchased from the Timber Development Association, 21, College-hill, London, EC4, price 3s. 6d.

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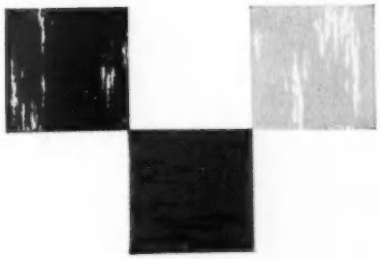

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# Birmingham's Inner Ring Road

## Sir Herbert Manzoni Describes Scheme

THE PLANNING and construction of the Inner Ring Road, Birmingham—estimated to cost nearly £23,000,000 when completed in 1969—was discussed at the Institution of Civil Engineers on April 25 by SIR HERBERT MANZONI, President of the Institution and City Surveyor and Engineer of Birmingham. He was responsible for the scheme, which makes maximum use of multi-level development of roads and buildings and is intended to direct through traffic from the City Centre.

In his paper Sir Herbert said that the original conception of the ring road was 40 years old. He described it as 'a city street of a novel character—it is not an urban motorway, nor principally a traffic or a shopping street.' There were two distinct considerations in its layout:

(1) the provision of an adequate circuit which could be used advantageously by traffic wishing to by-pass the centre completely, while allowing vehicles which needed to enter the centre to do so at the most convenient point having joined the ring elsewhere; and

(2) to provide for the extension of the commercial and shopping centre of the City.

Everything possible had been done to indicate the road and its function to drivers; the carriageway would be coloured red, whilst lighting columns and signing would be of special design.

Sir Herbert stated that allowing a generous margin for public service vehicles and 'working' traffic, a total of 50,000 vehicles entering and leaving at peak times seemed probable. He said that examination of the current curves of traffic flow indicated that during the morning peak there would be an hourly flow of about 40,000 car units. Each length of the ring between major junctions should have a capacity of 2,350 per hour in each direction.

On the question of pedestrian crossings, Sir Herbert said that 'a recent proposal by the Corporation to include a clause in a Private Bill, which would restrict the right of pedestrians to cross the highway within a certain distance of subways, was not proceeded with.' To achieve, so far as possible, a carriageway free from pedestrians, 'the substitution

*The Ringway Centre*

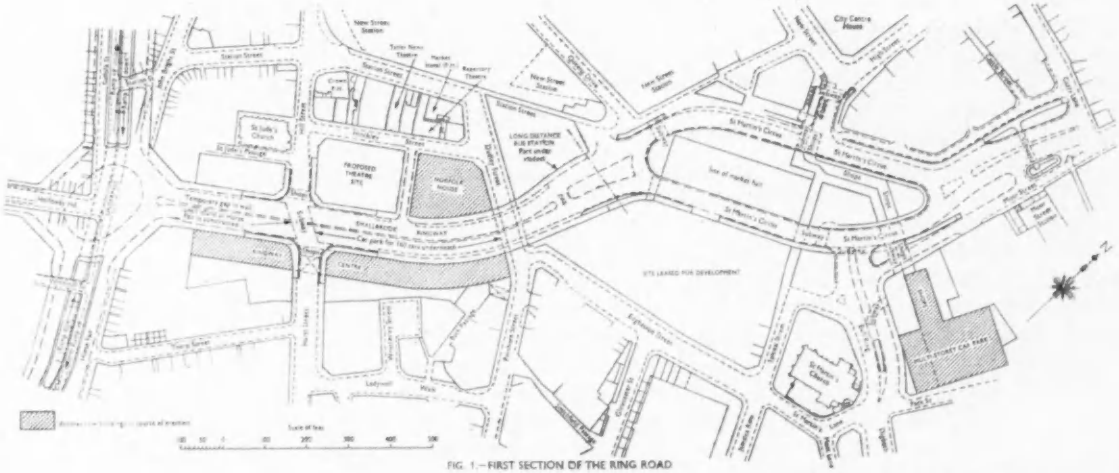


FIG. 1.—FIRST SECTION OF THE RING ROAD

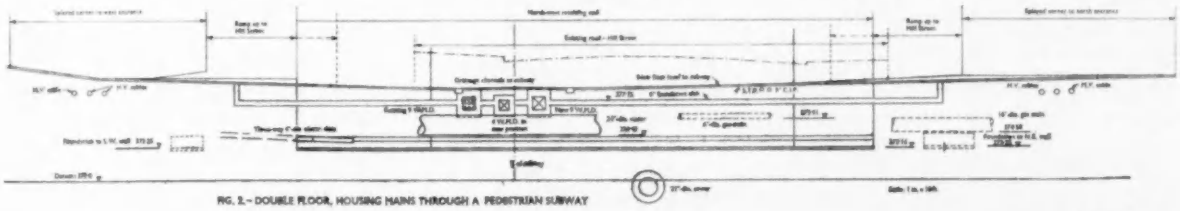


FIG. 2.—DOUBLE FLOOR, HOUSING MAINS THROUGH A PEDESTRIAN SUBWAY

Scale: 1 in. = 16 ft.

of attraction for compulsion' was considered. To be attractive the design must provide for easy access, must allow reasonably rapid progress to any corner of a junction, and must be—to use the old word—'comodious.'

A comparison of the unit cost of the London-Crick motorway, where 72 miles were constructed in less than two years, gave a figure of about £1m. per mile against an estimate of about £5m. per mile for the Inner Ring Road.

*Subway under Ringway Centre, Birmingham*

## The Bull Ring Centre, Birmingham

BIRMINGHAM'S traditional market and trading area, the Bull Ring, is the site of a £5m. multi-level shopping and commercial centre which will be the most advanced trading centre in Europe. The centre is to occupy three valuable sites on both sides of the Inner Ring Road, interlinked by covered bridges which will incorporate shops. The total site area is some four acres in extent, lying between St. Martin's Church and the reconstructed New-street railway station, with which it will be directly linked by a covered shopping mall. The developers are Laing Development Co. Ltd., and the scheme was prepared by their architect's department under S. Greenwood, ARIBA, in association with T. J. Hirst, ARIBA, AMTPI. The contractors, John Laing Construction Ltd., are starting work on the project immediately and completion is expected towards the end of 1963.

There will be 350,000 sq. ft. of retail shopping space in 140 shopping units, department stores, supermarkets, a general retail market covering an area of 36,000 sq. ft. and a fish market of 14,000 sq. ft. There will also be restaurants and coffee bars, licensed premises, banks, a baby crêche and pram park, multi-storey car park, a new central 'Midland Red' bus station and a seven-storey office and management block. Facilities for entertainment and recreation, including a bowling centre and banqueting rooms, are provided.

All trading accommodation will be contained within the main structure of the centre in which the temperature will be regulated in public thoroughfares and separate precincts, while each shop will have a separate control unit. Air conditioning and cooling plant will maintain an equable temperature throughout the year. The planning of the public malls and courtyards is arranged to afford all the advantages of the first-class shopping street—under ideal climatic conditions and free of the hazards of traffic congestion.

Basement level, which is approached by ramp from Edgbaston-street, contains loading bays and service lifts for goods delivery to the whole of the main block of the scheme, boiler house and refrigeration plant.

Ground floor contains the Midland Red Central Bus Station; service area including loading bays and lifts for the department store block; the fish and general retail markets; sales floor of F. W. Woolworth and Co. Ltd.; shops, banks, public houses, etc., fronting East-court and Edgbaston-street.

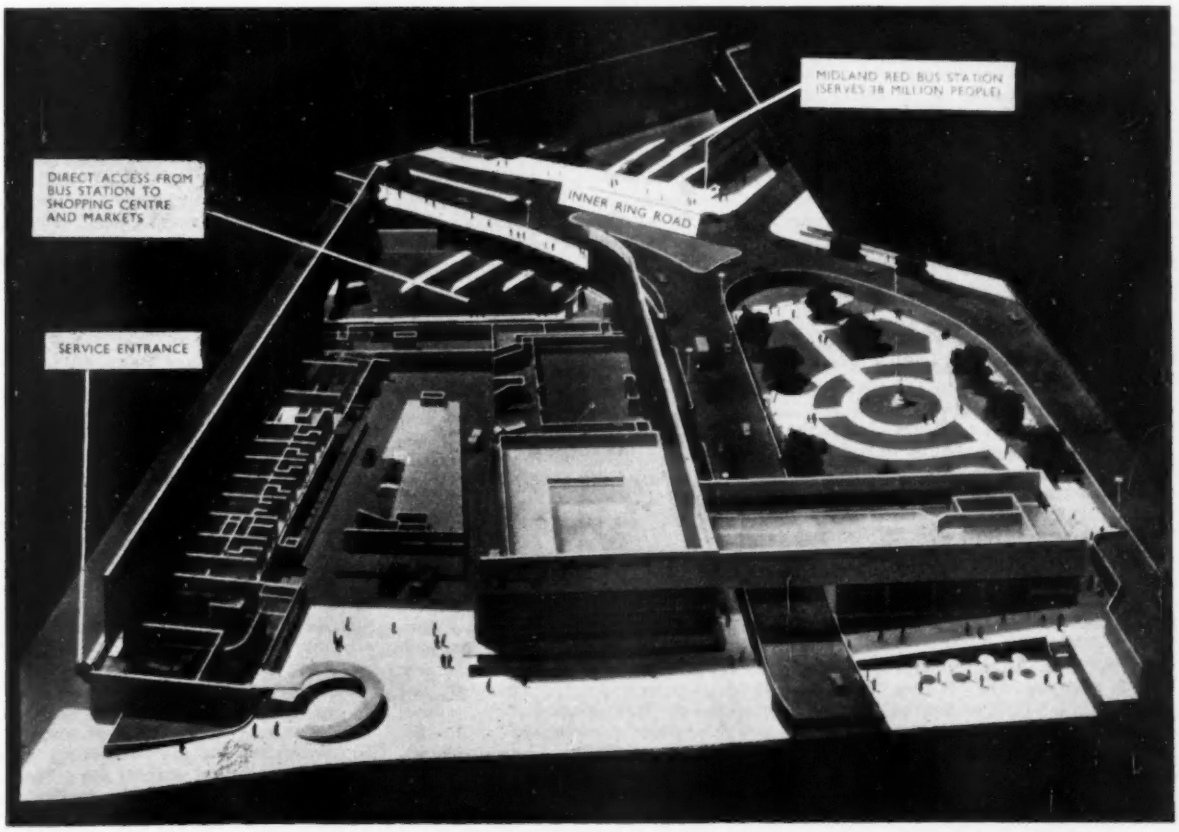
The first-floor shopping area has direct access by subway from New-street and from the footpath on the south side of the Inner Ring Road and also by staircase from the West-court. It is also approached by escalators from the foyer adjoining the bus station and the market entrance, and by spiral ramp from the East-court. In addition to the sales floor of F. W. Woolworth and Company Limited and the Midland Red Bus Company's snack bar, there will be 36 shop units and the lower level of the three-level department store.

The western end at first-floor level has perimeter shops, a department store, and entrance to the multi-storey car park for 500 cars.

On the upper level shopping area there will be 40 shop units, the upper level of the three-level department store—and on the bridge leading from the High-street and New-street entrance, either a large store or supermarket.

A department store block is provided, with a link connection to the main block. At Inner Ring Road level will be the main floor of the department store, together with five shop units fronting the road. First floor level contains the first floor of the department store, together with 10 shop units fronting an air-conditioned mall, access to which is gained by escalators from the Inner Ring Road and the covered mall leading to New-street Station. At second floor and bridge level the bridge connects the department store block with the main block and there are 23 shop units fronting the mall, together with a large supermarket and the entrance to the banqueting suites which are situated at the level above and are planned to cater for up to 2,000 persons. Access to this level is from the covered mall leading from New-street Station, escalators from the Inner Ring Road and escalators linking with the upper shopping level of the main block. At the Eastern end of the bridge and below the office block the baby crêche and pram park will be situated.

BULL RING CENTRE, BIRMINGHAM: *Above, general perspective of the development. Below, model with top storeys removed to show the ramp approach from Edgbaston-street and the general layout at Bus Station level*



# Heriot-Watt College, Edinburgh

## Recognition of Associateship Course in Building Technology

THE WHITE PAPER on Technical Education, published in 1956, recognised the standard of the Heriot-Watt College's associateship courses in the following terms: 'The full-time courses are of three to four years' duration and comparable in scope and standard with university degrees. Age and qualifications for entry are usually similar to those for a university degree, except that a foreign language is not essential. The awards thus instituted by the individual colleges have won for themselves an increasing reputation both in Scotland and beyond which testifies to the high standard of instruction provided. The highest awards of the two leading central institutions—the Royal Technical College, Glasgow, and the Heriot-Watt College, Edinburgh—are now recognised as being of honours degree standard.'

Following the recent changes in the Institute of Builders' regulations and examinations structure, formal application has been made to the Institute for exemption from the new professional examinations, and subject to certain modifications the council of the Institute has agreed to recognise the associateship qualifications for exemption from the Institute's professional examinations to the same extent as the BSc(Tech) course at Manchester and the Dip Tech in building at Birmingham.

### The New Course

A new full-time course giving effect to the modification required by the Institute has now been designed. It is part sandwich and extends over four sessions.

*First Year.*—Three 10-week terms during which lectures concentrate on the fundamental subjects of mathematics, physics, chemistry, history of building, economics and basic principles of building technology.

*Second Year.*—Two 10-week terms in which lectures deal with building science and technology, land surveying, quantity surveying, geology, book-keeping, law, economics, history, etc. In the six-month period extending over the summer term and vacation during the second year of the course, students return to sponsoring firms or, if not sponsored, then the head of department places students with firms offering opportunities for suitable site work. (Experience has shown that second-year students usually 'sell' themselves to firms during this six-month period and have little difficulty in obtaining full-time posts with the particular firm on completion of their course.)

*Third Year.*—In this year the student completes three ten-week terms in which lectures prepare him for Higher National Diploma examinations in building science and technology, quantity surveying, management, work study, law, etc.

*Fourth Year.*—If the student is successful in passing the Higher National Diploma in building he may be permitted to go forward to the fourth year which is part sandwich and in which the training emphasis bears heavily on management subjects. The novel feature of the sandwich composition of this final year is the requirement for associateship students to obtain some first hand knowledge of practical management in a large contracting organisation during the spring term. Thus it is hoped that all final year students, who will have had considerable training in management principles during the third and fourth years, will have an opportunity of seeing for themselves some practical applications of these principles before returning to the college for a final three-month period prior to the Institute's Part II Management examinations.

Entrance qualifications are based on Scottish school leaving standards and vary according to associateship or HND entrance. Holders of an Ordinary National Certificate in building may in certain circumstances be excepted but it is advisable for initial inquiries to be directed to the head of the department, Dr. N. C. Sidwell, Heriot-Watt College, Edinburgh.

# A Successful Incentive Bonus Scheme

## Results of Oxford Water Department's Experiment

AN EXPERIMENTAL incentive bonus scheme in connection with the main laying works carried out by Oxford city water department has proved so successful that it is to be made permanent and may be extended to other sections of the department's work, writes a correspondent.

The decision to experiment with the scheme follows a pilot survey by a consultant in management studies.

The aims of the scheme were to increase efficiency and reduce overall costs; to increase output per man; to reward initiative and better methods of working; and to encourage employees to stay with the department by giving them an opportunity of earning higher wages for greater output.

Reporting on the idea the city water committee says that over the period of experiment, which has covered works costing in total £112,715, the net saving to the council, after the payment of bonus and taking into account the cost of administering the scheme, has amounted to between £3,000 and £5,000, and on the complete programme of main laying works in hand is expected to be between £5,000 and £7,000.

The scheme has led to improved methods of working, many suggested by the employees themselves, and the use of mechanical equipment, and has resulted in an increase in output per man sufficient to earn an average bonus of approximately £1 3s. 9d. per week. Despite this, a reduction in the cost of labour amounting to approximately 5 per cent of the total cost of the main laying works carried out has been achieved.

One of the most satisfying features of the scheme, furthermore, has been its effect on the retention of labour, which is illustrated by the following statement on the turnover since 1954:

| Year | Number of men starting work with Dept. | Number of men leaving the Dept. | Average number of men employed in Dept. |
|---|---|---|---|
| 1954 ... | 29 | 27 | 41 |
| 1955 ... | 15 | 12 | 44 |
| 1956 ... | 12 | 10 | 45 |
| 1957 ... | 15 | 14 | 45 |
| 1958 ... | 15 | 8 | 47 |
| 1959 ... | 4 | 3 | 48 |
| 1960 ... | 8 | 3 | 49 |

The committee considers that this experiment, covering a period of nearly three years and works carried out under all conditions likely to be met with, has convincingly demonstrated the benefits of the scheme both to the council and its employees.

# Technicians in Civil Engineering

## *Progress With Training Scheme*

IN KEEPING with the pioneering nature of civil engineering work there was a progressive outlook both in the industry and the profession, said MR. W. G. MITCHELL, CBE, President of the Federation of Civil Engineering Contractors, at the annual dinner of the Federation at the Dorchester Hotel on May 9.

Mr. Mitchell drew attention to the close co-operation between the Federation, the Institution of Civil Engineers and the Association of Consulting Engineers. He said that, in conjunction with the Minister of Education, they were at present hammering out a scheme for the training of technicians. This scheme would provide a career for men who, although not perhaps possessing the academic ability to obtain full professional status, could nevertheless make a great contribution to the industry if given some sort of recognition and standing.

For 12 years the Federation and Institution had been operating a scheme for the practical training of young engineers. The scheme had been very successful in providing firms with men who could meet the challenge of new developments.

The Civil Engineering Scholarship Trust which, in conjunction with the professional bodies, the Federation had been running for the last three years, played a valuable part in attracting men of the highest calibre to the industry.

Mr. Mitchell emphasised that no industry could hope to hold its own unless it devoted substantial resources to research. The Federation and the professional bodies were engaged on working out schemes that would mark a great step forward.

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Experience and training as a Quantity Surveyor with a progressive Company is essential and candidates should have had experience of contracts of approximately £½ mln. value. Membership of the Institute of Quantity Surveyors or other appropriate technical qualifications would be of advantage.

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# Roads in Built-up Areas

## Need to Keep up with Growth of Motorways

FROM A LOCAL GOVERNMENT CORRESPONDENT

THE ASSOCIATION OF MUNICIPAL CORPORATIONS is to ask the Minister of Transport, Mr. Ernest Marples, to meet representatives at an early date to discuss the general question of highway grants and also highway finance in administrative counties.

The main point of discussion will be a paragraph in a memorandum drawn up by Manchester City Council and submitted to the Minister by a city council deputation on July 20, 1960. At that meeting the Minister suggested that the council should seek the views of the association before proceeding further. In this paragraph the city council put forward the following points:

(a) As a matter of urgency much more money needs to be spent on roads than is at present contemplated by the Government if reasonable provision is to be made to meet the increasing needs of traffic.

(b) Much of the advantage of the Government's proposals for improving trunk roads will be lost unless they are supplemented by the improvement of major roads in built-up areas.

(c) The Government alone possesses the necessary resources to finance these projects.

(d) The burden upon county boroughs for maintaining and lighting classified and unclassified roads to a standard commensurate with the present growth of traffic is such as to strain their resources.

(e) The grant structure should be revised so as to increase the Government's contribution and to enable local authorities to play their part in providing a road system commensurate with the urgent economic needs of the country.

The city council considered that a case existed for increasing Exchequer grants as follows:

(i) Class I Roads: The grants should be increased from 75 per cent to 90 per cent and the basis should be enlarged to include maintenance costs in county boroughs and metropolitan boroughs.

(ii) Class II Roads: The grants should be increased from 60 per cent to 75 per cent and the basis should be enlarged to include maintenance costs in county boroughs and metropolitan boroughs.

(iii) Class III Roads: The grants should be increased from 50 per cent to 60 per cent and the basis should be enlarged to include maintenance costs in county boroughs and metropolitan boroughs.

The council's memorandum continued: 'It is impossible to escape the conclusion that an even greater need for capital expenditure on road maintenance and improvement will arise because of the continuing growth of traffic. Forecasts indicate that in less than twenty years the number of vehicles on the road may well be doubled. The revenue accruing to the Central Government from this source will therefore automatically double itself without any change in the rate of taxation. Local authority rate income, on the other hand, does not automatically adjust itself in this way: additional income can be obtained only by increasing the rate poundage, and this means increasing the rate burden on the general body of ratepayers.

'In this respect attention is drawn to the recommendation made by a research committee of the Institute of Public Administration to the effect that the revenue from motor licence duties might be transferred to local authorities, either as a local tax or assigned to a municipal fund from which it could be distributed to local authorities: this revenue amounted to £105m. in 1959 and compares with £75m. spent by the Government in the same year.'

A report from the association says its highways and transport committee is in broad agreement with the proposals.

# Housing Progress Report

## Completions Up in First Quarter of 1961

THE HOUSING PROGRESS REPORTS presented to Parliament as White Papers* by the Minister of Housing and Local Government and the Secretary of State for Scotland show that the number of permanent houses completed in Great Britain during March was 25,916 compared with 24,953 in March, 1960. In the first three months of 1961, 69,056 permanent houses were completed compared with 66,476 in the same period of 1960. Detailed figures at the end of March were:

### PERMANENT HOUSES AND FLATS COMPLETED

| | Great Britain | | | England and Wales | | |
|---|---|---|---|---|---|---|
| | Post-war total to March 31, 1961 | Completions in March | Completions in 1961 to March 31 | Post-war total to March 31, 1961 | Completions in March | Completions in 1961 to March 31 |
| By Public Authorities: | | | | | | |
| Local Authorities† ... | 2,412,550 | 10,803 | 27,175 | 2,048,053 | 8,982 | 22,153 |
| Housing Associations... | 46,428 | 200 | 453 | 44,863 | 196 | 449 |
| Government Depts. ... | 79,918 | 469 | 1,278 | 71,341 | 250 | 1,059 |
| Total ... ... | 2,538,896 | 11,472 | 28,906 | 2,164,257 | 9,428 | 23,661 |
| By Private Builders ... | 1,220,312 | 14,444 | 40,150 | 1,178,364 | 13,537 | 38,443 |
| Total ... ... | 3,759,208 | 25,916 | 69,056 | 3,342,621 | 22,965 | 62,104 |

### PERMANENT HOUSES AND FLATS UNDER CONSTRUCTION

| | Great Britain | | | England and Wales | | |
|---|---|---|---|---|---|---|
| | Under construction at Mar. 31, 1961 | Under construction at Dec. 31, 1960 | Under construction at Sept. 30, 1960 | Under construction at Mar. 31, 1961 | Under construction at Dec. 31, 1960 | Under construction at Sept. 30, 1960 |
| By Public Authorities: | | | | | | |
| Local Authorities† ... | 142,795 | 143,247 | 146,813 | 118,404 | 117,519 | 119,055 |
| Housing Associations... | 1,385 | 1,572 | 1,755 | 1,329 | 1,529 | 1,712 |
| Government Depts. ... | 6,163 | 6,311 | 6,121 | 5,861 | 6,052 | 5,986 |
| Total ... ... | 150,343 | 151,130 | 154,689 | 125,594 | 125,100 | 126,753 |
| By Private Builders ... | 130,226 | 126,799 | 132,595 | 124,988 | 121,851 | 127,424 |
| Total ... ... | 280,569 | 277,929 | 287,284 | 250,582 | 246,951 | 254,177 |

† In Scotland includes houses built or being built by Scottish Special Housing Association.

### CLEARANCE OF UNFIT AND OTHER HOUSES: ENGLAND AND WALES

| | First quarter, 1961 | 1960 | Total since April 1, 1945 |
|---|---|---|---|
| Number of Houses: | | | |
| In clearance areas submitted ... | 9,184 | 37,719 | ‡ |
| In clearance orders confirmed ... | 1,710 | 8,526 | 55,254 |
| In compulsory purchase orders confirmed ... | 10,319 | 30,791 | 165,196 |
| Demolished or closed ... | ‡ | 56,992 | 378,110§ |
| Number of Persons: | | | |
| In clearance areas submitted ... | 26,472 | 109,638 | ‡ |
| In clearance orders confirmed ... | 4,417 | 22,677 | 150,270 |
| In compulsory purchase orders confirmed ... | 30,397 | 88,033 | 506,234 |
| Moved from houses demolished or closed ... | ‡ | 158,450 | 1,136,244§ |

* Cmd. 1348. Housing Return for England and Wales, HMSO, price 9d. Post-free, 11d.
* Cmd. 1349. Housing Return for Scotland, HMSO, price 1s. 3d. Post-free, 1s. 5d.
‡ Not available.
§ To December, 1960.

# THE BUILDER CURRENT PRICES

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## AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

| | | £ | s. | d. |
|---|---|---|---|---|
| Pit Ballast | per yd. | 1 | 5 | 5 |
| Pit Sand | ,, | 1 | 3 | 8 |
| Washed Sand | ,, | 1 | 6 | 9 |
| ⅜ in. Shingle | ,, | 1 | 4 | 3 |
| ¾ in. Broken Brick | ,, | 1 | 0 | 9 |
| Pan Breeze | ,, | 1 | 1 | 6 |
| Fine or Coarse Foamed Slag Aggregate | per ton | 3 | 8 | 0 |

2 yds. of fine and 2.6 yds. of coarse per ton.

## CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

| | | £ | s. | d. |
|---|---|---|---|---|
| 6-ton loads and upwards, site | per ton | 5 | 15 | 3 |
| 1 to 6 tons, site | ,, | 6 | 7 | 3 |
| Rapid-Hardening Cement in 6-ton loads and upwards to site | ,, | 6 | 5 | 9 |
| 1 to 6 tons do. site | ,, | 6 | 17 | 9 |

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

| | | | | |
|---|---|---|---|---|
| Red, Buff or Khaki Colorcrete in 6-ton lots | ,, | 8 | 15 | 3 |

Other colours according to colour.

In 4-ton lots from 313s. 3d. to 711s. 3d. per ton.

| | | | | |
|---|---|---|---|---|
| White Portland Cement | ,, | 14 | 0 | 9 |
| Under 1 ton | per cwt. | | 17 | 1 |
| 417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards | per ton | 7 | 7 | 9 |

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 13s.3d. to £14 8s.3d. (1-ton loads and upwards).

| | | | | |
|---|---|---|---|---|
| Ciment Fondu and Lightning Brands High Aluminous cement, 6-ton lots and up | ,, | 15 | 14 | 6 |
| Stourbridge Fireclay, 6-ton loads at Railway Depot, London | ,, | 6 | 19 | 0 |
| Stourbridge Fireclay, 6-ton loads (London sites) | ,, | 7 | 12 | 0 |
| Moler Mortar Powder for Flue Bricks (London sites) | per cwt. | 1 | 6 | 0 |

## BRICKS

| Full Loads | | £ | s. | d. |
|---|---|---|---|---|
| First Hard Stocks | per 1,000 | 16 | 19 | 6 |
| Second Hard Stocks | ,, | 14 | 18 | 6 |
| Mild Stocks (Kiln Burnt) | ,, | 11 | 5 | 0 |
| Mild Stocks | ,, | 11 | 0 | 0 |

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district :

| | | | | |
|---|---|---|---|---|
| Commons | ,, | 6 | 12 | 0 |
| Cellular Commons | ,, | 6 | 12 | 0 |
| Keyed do. | ,, | 6 | 14 | 0 |
| Rustics | ,, | 8 | 12 | 0 |
| Cellular Rustics | ,, | 8 | 12 | 0 |
| Single Bullnose Commons | ,, | 8 | 14 | 6 |
| Sandfaced | ,, | 9 | 12 | 0 |
| Tuscans | ,, | 10 | 7 | 0 |
| Saxons | ,, | 10 | 15 | 0 |
| Golden Buffs | ,, | 11 | 2 | 0 |
| Dapple Light Facings | ,, | 11 | 9 | 6 |
| Heather Facings | ,, | 11 | 5 | 0 |
| Best Blue Pressed Staffs (London sites) | ,, | 33 | 4 | 9 |
| do. Bullnose (London sites) | ,, | 34 | 3 | 9 |
| Blue Wire Cuts (London sites) | ,, | 29 | 9 | 6 |
| Midhurst Lime Bricks (London sites) | ,, | 11 | 13 | 0 |
| Uxbridge Whites (London sites) | ,, | 11 | 8 | 6 |
| Special Purpose Sandlime Bricks (London sites) | ,, | 9 | 2 | 0 |

Best Stourbridge Fire Bricks :

| | | | | |
|---|---|---|---|---|
| 2½ in. (London stations) | ,, | 32 | 14 | 0 |
| 2½ in. (London sites) | ,, | 33 | 2 | 9 |
| 3 in. (London stations) | per 1,000 | 39 | 4 | 6 |
| 3 in. (London sites) | ,, | 39 | 15 | 0 |
| 2⅞ in. Moler Flue Bricks (London sites) | ,, | 31 | 0 | 0 |
| 2⅞ in. Machine-made Sandfaced Red Facings (London sites) | ,, | 18 | 19 | 0 |
| 2⅞ in. Machine-made Multi Red Facings (London sites) | ,, | 19 | 4 | 0 |
| 2⅞ in. Hand-made Sandfaced Red Facings (London sites) | ,, | 20 | 17 | 6 |
| 2⅞ in. Hand-made Sandfaced Multi-Colour Facings (London sites) | ,, | 20 | 17 | 6 |
| Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites) | ,, | 21 | 5 | 0 |
| Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites) | ,, | 21 | 5 | 0 |
| Rubber Bricks for gauged arches (London sites) | ,, | 52 | 5 | 0 |
| 2⅞ in. Surrey Clamp Burnt Multi Stock Facings (London sites) | ,, | 16 | 15 | 0 |
| 2⅞ in. Surrey Kiln Burnt Multi Stock Facings (London sites) | ,, | 18 | 2 | 6 |
| Glazed Bricks (London sites), White, Ivory, Brown: | | | | |
| Stretchers | ,, | 64 | 0 | 0 |
| Headers | ,, | 63 | 0 | 0 |
| Quoins, Bullnose and 4½ in. Flats | ,, | 80 | 0 | 0 |
| Double Stretchers | ,, | 85 | 0 | 0 |
| Double Headers | ,, | 77 | 10 | 0 |
| One side and two ends | ,, | 87 | 0 | 0 |
| Two sides and one end | ,, | 89 | 10 | 0 |
| Splays and Squints | ,, | 83 | 0 | 0 |

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 47½% for Best quality and plus 47½% less 10% for Second quality.

## PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| **Hollow Clay Partition Blocks (Keyed)** | | | | | |
| Minimum lorry loads | | | | | |
| *2½ in. | 140 yds. | per yd. sup. | | 4 | 7 |
| **Building Blocks (Keyed)** | | | | | |
| *3 in. (6 cavity) | 110 yds. | ,, | | 5 | 9 |
| *4 in. (6 cavity) | 90 yds. | ,, | | 7 | 3 |
| 6 in. (8⅞ in. × 5⅞ in.) | 1,250 blocks | per 1,000 | 26 | 9 | 0 |

* Half blocks at no extra charge.

| | | | | | |
|---|---|---|---|---|---|
| **Clinker Concrete** | | | | | |
| 2 in. | 100 yds. | per yd. sup. | | 3 | 11 |
| 2½ in. | 85 yds. | ,, | | 4 | 6 |
| 3 in. | 75 yds. | ,, | | 5 | 6 |
| 4 in. | 55 yds. | ,, | | 6 | 11 |
| **Cranham Terra Cotta** | | | | | |
| 2 in. | | ,, | | 7 | 5 |
| 2½ in. | | ,, | | 8 | 4 |
| 3 in. Load bearing quality | | ,, | | 9 | 6 |
| 4 in. do. do | | ,, | | 11 | 6 |
| **Moler Partition Blocks** | | | | | |
| 2 in. | 150 yds. | ,, | | 12 | 9 |
| 2½ in. | 120 yds. | ,, | | 13 | 9 |
| 3 in. | 100 yds. | ,, | | 14 | 9 |
| 4 in. | 90 yds. | ,, | | 17 | 0 |
| **Lightweight Concrete Building and Partition blocks of Various Sources of Manufacture** | | | | | |
| 2 in. | 100 yds. | per yd. sup. | | 5 | 4 |
| 2½ in. | 80 yds. | ,, | | 6 | 5 |
| 3 in. | 65 yds. | ,, | | 7 | 5 |
| 4 in. | 50 yds. | ,, | | 9 | 4 |
| 4½ in. | 44 yds. | ,, | | 10 | 2 |
| 6 in. | 33 yds. | ,, | | 14 | 5 |
| **Thermalite-Ytong Partition Blocks** | | | | | |
| 2½ in. | 144 yds. | ,, | | 7 | 0 |
| **Thermalite-Ytong Load-Bearing Insulating Blocks** | | | | | |
| 3 in. | 120 yds. | per yd. sup. | | 8 | 5 |
| 4 in. | 90 yds. | ,, | | 11 | 0 |
| 5 in. | 72 yds. | ,, | | 13 | 9 |
| 6 in. | 60 yds. | ,, | | 16 | 6 |
| 8½ in. | 42 yds. | ,, | 1 | 3 | 8 |

**Floor Blocks and Filler Tiles**

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads :

| | | | | |
|---|---|---|---|---|
| 3 in. | per 1,000 | 35 | 14 | 0 |
| 4 in. | ,, | 38 | 9 | 0 |
| 5 in. | ,, | 46 | 1 | 0 |
| 6 in. | ,, | 52 | 12 | 0 |
| 7 in. | ,, | 64 | 12 | 0 |
| 8 in. | ,, | 75 | 9 | 0 |
| 9 in. | ,, | 83 | 2 | 0 |
| 10 in. | ,, | 92 | 0 | 0 |

Filler Tiles in multiples of 10 tiles per 1,000 multiples :

| | | | | |
|---|---|---|---|---|
| 12 in. × 3 in. × ⅝ in. | ,, | 43 | 13 | 0 |
| 12 in. × 4 in. × ⅝ in. | ,, | 75 | 7 | 0 |
| 10 in. × 5 in. × ⅝ in. | ,, | 75 | 7 | 0 |

# 23-storey flats in the City of Westminster

High above the City of Westminster, London's tallest block of flats, the 23-storey, 212 ft. Hide Tower, Hide Place, Westminster, is due for completion in June.

Speed and economy of construction have been achieved by efficient design; the superstructure up to second floor level is of *in situ* reinforced concrete; above this, precast concrete frame units, lifted by tower crane, are anchored by precast reinforced concrete floor slabs to a central core which runs the full height of the building and contains the lift well, refuse chutes and central landing. The reinforced concrete cladding panels, which are faced with Norwegian quartz white crystal exposed aggregate, have been designed for fixing from within – dispensing with the need for scaffolding.

Hide Tower will accommodate 160 flats on 20 floors, above a double-storey height open ground floor, and surmounted by a single-storey laundry and club room. Two high-speed inter-connected lifts will serve all floors.

Director of Housing, City of Westminster,
E. J. Edwards, F.R.I.B.A, F.R.I.C.S, F.Inst.Hsg
Architects: Stillman and Eastwick-Field
Structural Engineers: Charles Weiss and Partners
Quantity Surveyors: Harry Trinick and Partners

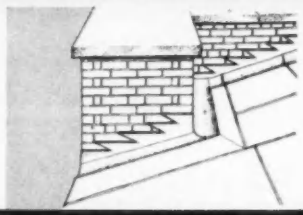
**LAING**

John Laing and Son Limited Great Britain and Overseas

# ICI COPPER FOR BUILDING

## Roofing Copper

Coiled strip or sheet to BS 1569 for roof and wall cladding. Supplied in tempers appropriate to the roofing method.

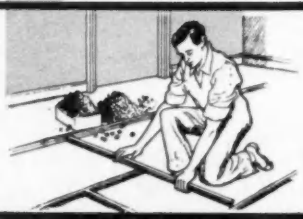


## Gutterings & flashings

Copper sheet or strip to BS 1569 for gutterings, flashings and weatherings. Also supplied to BS 1431 for rainwater goods. Dead soft or half-hard temper.

## Extrusions

Copper alloy extrusions for balustrades, doors, window frames, stair nosings, shop fittings and decorative trim.

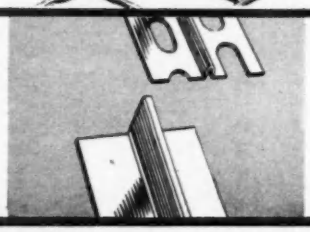


## 'Terrabond'

Serrated brass strip for terrazzo flooring. Reduces laying costs by allowing an early start to filling-in. Two sizes—¼" x ¼" and ⅜" x ⅜", special sizes to order.

## 'Kudampro' dampcourse strip

Copper strip for horizontal damp-proof courses. Will not tear, puncture or exude from the joints. Soft-temper coils of standard length, widths up to 36".



## Expansion joint strip

Copper strip for expansion joints, two patterns—BS 1878 and to ICI design with punched holes to keep strip firm. Standard 10-12 ft. lengths x 5" wide.

G.20

ICI METALS DIVISION

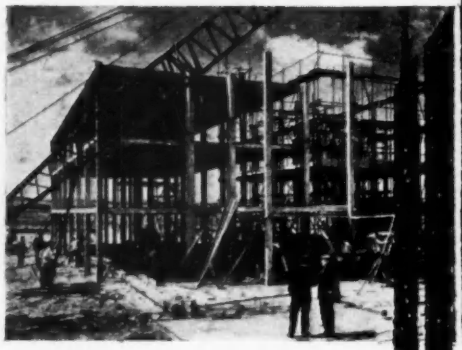
IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1.



# Pattern of service in the concrete age

### Working to schedule

Precast reinforced concrete frame three storeys high 132′ 0″ × 30′ 0″ erected by five men in three weeks.
Two components only—full-height columns and large area floor slabs, permitting varying plan form to suit particular schemes. Four of these structures erected for the United Kingdom Atomic Energy Authority Establishment, Winfrith Heath, Dorset.



### Three Fold Service

**Modular** offer the combined services of consultation, design, manufacture and construction.
**Modular** will manufacture and erect to your designs.
**Modular** are specialists in precast structural concrete combined with integral finishes.

Whatever your concrete problem, the Modular Concrete Company's practical experience and technical resources are at your service.

Modular concrete

**SPECIALIST ENGINEERS & CONTRACTORS**

THE MODULAR CONCRETE CO. LTD. (*Construction Division*)
1260 London Road, Norbury, S.W.16. Telephone: POLlards 5000

## STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

| | | 4 in. | 6 in. | 9 in. |
|---|---|---|---|---|
| Pipes, 2 ft. lengths ... ... ... ... | per ft. | 1/8 | 2/6 | 4/6 |
| Bends ... ... ... ... ... ... | each | 5/– | 7/6 | 20/3 |
| Junctions ... ... ... ... ... | ,, | 8/4 | 12/6 | 27/– |
| Gullies with 4 in. outlets ... ... ... | ,, | 12/6 | 13/9 | 22/6 |

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

| | Over 2 tons | Over 100 pieces Under 2 tons | Under 100 pieces Under 2 tons |
|---|---|---|---|
| Best Quality ... | −5% | +15% | +20% |
| BSS Best Quality... | +10% −5% | +10% +15% | +10% +20% |
| Tested Quality ... | +37½% −5% | +37½% +15% | +37½% +20% |
| BSS Tested Quality | +47½% −5% | +47½% +15% | +47½% +20% |

| | | £ | s. | d. |
|---|---|---|---|---|
| 3 in. Land Drain Pipes (in 12 in. lengths) ... ... | per 1,000 | 12 | 10 | 6 |
| 4 in. do. do. ... ... ... ... ... | ,, | 16 | 16 | 0 |
| 6 in. do. do. ... ... ... ... ... | ,, | 34 | 10 | 0 |
| 9 in. do. do. ... ... ... ... ... | ,, | 64 | 19 | 0 |

## DAMP COURSE

| | | £ | s. | d. |
|---|---|---|---|---|
| Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area ... ... ... ... | per yd. sup. | | 3 | 5 |
| Asbestos base do. 7 lb. per yd. sup. do. do. | ,, | | 5 | 2 |
| Lead lined bitumen do. 9¼ lb. per yd. sup. do. do. | ,, | | 12 | 2 |
| 18 in. × 9 in. British damp course slates ... ... | per 1,000 | 43 | 8 | 11 |
| 14 in. × 9 in. do. do. ... ... | ,, | 32 | 8 | 2 |
| 9 in. × 9 in. do. do. ... ... | ,, | 18 | 18 | 9 |
| 18 in. × 4½ in. do. do. ... ... | ,, | 19 | 19 | 9 |
| 14 in. × 4½ in. do. do. ... ... | ,, | 15 | 18 | 3 |
| 9 in. × 4½ in. do. do. ... ... | ,, | 10 | 14 | 3 |

## STONE

| | | £ | s. | d. |
|---|---|---|---|---|
| Bath Stone | | | | |
| Monks Park ... ... ... ... ... ... | per ft. cube | | 10 | 3 |
| St. Aldhelm Box Ground ... ... ... ... | ,, | | 11 | 6 |
| Delivered in railway trucks at South Lambeth B.R. Western Region. | | | | |
| Doulting Stone Random Blocks. Delivered London area ... ... ... ... ... ... | ,, | | 10 | 10 |
| Beer Stone. Delivered London area ... ... | ,, | | 10 | 6 |
| Portland Stone— | | | | |
| Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region ... ... ... | ,, | | 9 | 10 |
| Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots. | | | | |
| 9 in. × 3 in. Rubbed, weathered, throated and stolled cills ... ... ... ... ... ... | per ft. cube | 4 | 5 | 10 |
| 12 in. × 6 in. do. do. do. ... ... | ,, | 3 | 1 | 2 |
| 12 in. × 3 in. Plain coping, twice throated ... ... | ,, | 2 | 7 | 6 |
| 12 in × 3 in. Weathered and twice throated coping | ,, | 3 | 3 | 3 |
| 14 in. × 6 in. do. do. do. ... ... | ,, | 2 | 17 | 0 |
| 4½ in. × 9 in. Plinth rubbed on top and face ... | ,, | 2 | 11 | 0 |
| 3 in. sawn two sides Slabs, random sizes ... ... | per ft. sup. | | 9 | 1 |
| Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ... | per ft. cube | 1 | 11 | 3 |
| do. do. fair one edge for fair faced brickwork | ,, | 1 | 17 | 0 |
| Hard York— | | | | |
| 12 in. × 2 in. Square Steps, rubbed on top and edge ... ... ... ... ... ... ... | per ft. run | | 11 | 0 |
| 14 in. × 3 in. Round-nosed Steps, rubbed on top and front ... ... ... ... ... ... | per ft. cube | 2 | 18 | 3 |
| 12 in. × 6 in. Plain Steps, rubbed top and front | ,, | 2 | 11 | 0 |
| 2 in. Rubbed and Jointed Paving, given sizes ... | per ft. sup. | | 10 | 3 |
| 2 in. Sawn Paving, edges squared, in random sizes ... ... ... ... ... ... ... | per yd. sup. | 3 | 12 | 0 |

## TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

| | £ | s. | d. |
|---|---|---|---|
| Machine-made Pantiles and French pattern Tiles from Lincolnshire district ... ... ... ... ... ... | 35 | 16 | 6 |
| Hand-made Pantiles Berkshire district ... ... ... | 64 | 10 | 0 |
| Hand-made Double Roman Bridgwater district ... ... | 78 | 2 | 9 |
| Hand-made 10½ × 6½ tiles Berkshire district ... ... ... | 18 | 0 | 0 |
| Machine-made 10½ × 6½ Staffordshire district ... ... | 17 | 0 | 0 |
| Hand-made Hip and Valley tiles per doz. ... ... ... | 1 | 13 | 0 |
| Machine-made Hip and Valley tiles do. ... ... ... | 1 | 12 | 0 |
| Concrete tiles 10½ × 6½ ... ... ... ... ... ... | 8 | 10 | 0 |
| do. Interlocking (49S) ... ... ... ... | 19 | 16 | 6 |

NOTE.—Breakage in transit, purchasers' responsibility.

## SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

| | £ | s. | d. |
|---|---|---|---|
| 24 × 12 ... ... ... ... ... ... ... ... ... ... | 160 | 4 | 0 |
| 22 × 12 ... ... ... ... ... ... ... ... ... ... | 126 | 15 | 0 |
| 22 × 11 ... ... ... ... ... ... ... ... ... ... | 114 | 15 | 0 |
| 20 × 12 ... ... ... ... ... ... ... ... ... ... | 107 | 5 | 0 |
| 20 × 10 ... ... ... ... ... ... ... ... ... ... | 105 | 0 | 0 |
| 18 × 10 ... ... ... ... ... ... ... ... ... ... | 71 | 5 | 0 |
| 18 × 9 ... ... ... ... ... ... ... ... ... ... | 62 | 14 | 0 |
| 16 × 10 ... ... ... ... ... ... ... ... ... ... | 54 | 15 | 0 |
| 16 × 8 ... ... ... ... ... ... ... ... ... ... | 42 | 18 | 0 |

NOTE.—Breakage in transit, purchasers' responsibility.

## TIMBER

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| Softwood | Ex Wharf | per standard | £115 to £140 | | |
| Joinery quality ... ... ... ... | | | | | |
| Carcassing quality ... ... ... | do. | ,, | £94 — £98 | | |
| 1 in. Tongued and Grooved Flooring | do. | ,, | £112 | 0 | 0 |
| Hardwood | | | £ | s. | d. |
| Mahogany—African S.E. ... ... | do. | per ft. cube | 1 | 10 | 0 |
| do. Honduras S.E. ... ... | do. | ,, | 3 | 5 | 0 |
| Oak European S.E. ... ... | do. | ,, | 2 | 10 | 0 |
| do. Japanese S.E. ... ... | do. | ,, | 3 | 0 | 0 |
| do. English Logs sawn ... | do. | ,, | 2 | 0 | 0 |
| Teak 8 in. average S.E. ... | do. | ,, | 3 | 17 | 6 |
| Walnut African Logs sawn ... | do. | ,, | 1 | 2 | 6 |
| Plywood | | per | | | |
| 6 mm. (¼ in.) Birch Plywood B/BB ... ... | | 100 sq. ft. | 4 | 6 | 9 |
| 6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100) ... ... ... ... ... | | ,, | 4 | 5 | 3 |
| 18 mm. Birch Blockboard ... ... ... ... | | ,, | 9 | 9 | 6 |
| ¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WPB (AX100) solid two sides ... ... | | ,, | 9 | 6 | 9 |

## DOORS (in Lots I-II)

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| 1⅛ in. 4 Horizontal Panel. Pattern 4 in. deal | | | | |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | each | 1 | 16 | 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 17 | 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 18 | 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 0 | 6 |
| 2 in. do. but top panel open. Pattern 4 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 9 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 11 | 6 |
| 2 in. 2 Panel top panel open. Pattern 2 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 3 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 5 | 0 |
| 1⅛ in. Plywood Faced Flush Doors to BS459, Part 2A | | | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | ,, | 1 | 12 | 3 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 12 | 3 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 13 | 9 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 15 | 3 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 18 | 0 |
| 1⅛ in. Hardboard Faced Flush Doors | | | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | ,, | 1 | 5 | 6 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 6 | 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 6 | 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 8 | 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 9 | 6 |

## SUNDRIES

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| 1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (67 yds. to 1 ton) ... ... | per yd. | | 6 | 2 |
| 1½ in. do. (67 yds. to 1 ton) ... ... | ,, | | 8 | 0 |
| 2 in. do. (52 yds. to 1 ton) ... ... | ,, | | 9 | 9½ |
| 2½ in. do. (45 yds. to 1 ton) ... ... | ,, | | 11 | 3 |
| 3 in. do. (39 yds. to 1 ton) ... ... | ,, | | 12 | 7½ |
| Quantities under 1 ton add 1d. per ½ in. of thickness | | | | |
| ½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft. ... ... ... ... | per 100 sq. ft. | 2 | 2 | 6 |
| ½ in. Hardboard do. ... ... ... ... | ,, | 1 | 17 | 6 |
| 5/16 in. do. do. ... ... ... ... | ,, | 2 | 4 | 6 |
| 2 in. Compressed Straw Slabs, roofing quality, 6 ft., 8 ft., 9 ft., 10 ft., and 12 ft. × 4 ft. | | | | |
| 50–100 yds. ... ... ... ... ... ... | per yd. sup. | | 11 | 4 |
| 101–250 yds. ... ... ... ... ... ... | ,, | | 10 | 10 |
| 251–750 yds. ... ... ... ... ... ... | ,, | | 10 | 1 |
| Over 750 yds. ... ... ... ... ... ... | ,, | | 9 | 4 |
| 2 in. do. for partitions 4d. per yd. cheaper. | | | | |
| 1/16 in. Asbestos Flat Building Sheets... ... ... | ,, | | 4 | 3½ |
| ¼ in. do. do. do. ... ... ... | ,, | | 6 | 0 |
| Roofing Felt 1-ply ... ... ... ... ... ... | ,, | | 1 | 9 |
| do. 2-ply ... ... ... ... ... ... | ,, | | 2 | 2¼ |
| Best Scotch Glue in slabs ... ... ... ... | per ½ cwt. | 5 | 3 | 9 |
| do. pearl ... ... ... ... ... | ,, | 5 | 3 | 9 |
| Croid Glue ... ... ... ... ... ... ... | 28 lb. | 2 | 6 | 0 |
| Impact Adhesive ... ... ... ... ... ... | per gall. | 2 | 12 | 0 |
| Cut Nails 3 in. (1-ton lots) ... ... ... ... | per ton | 84 | 10 | 0 |
| do. 4 in. and up (1-ton lots) ... ... ... | ,, | 81 | 0 | 0 |
| Wire Nails 3 in. (4-cwt. lots) ... ... ... ... | per cwt. | 3 | 19 | 2 |
| do. 4 in. and up (4-cwt. lots) ... ... | ,, | 3 | 16 | 6 |

## METALS

STEEL JOISTS, ETC.

| Basis Joists— | | £ | s. | d. |
|---|---|---|---|---|
| 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in., plain cut to lengths delivered London area ... ... ... ... ... ... | per ton | 47 | 15 | 0 |
| Extra for sizes | | | | |
| 3 in. × 1½ in. 4 in. × 1¾ in. ... ... ... ... | ,, | 3 | 10 | 0 |
| 3 in. × 3 in. ... ... ... ... ... ... ... | ,, | 2 | 10 | 0 |
| 4 in. × 3 in. ... ... ... ... ... ... ... | ,, | 2 | 5 | 0 |
| 10 in. × 4½ in. ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| 5 in. × 2½ in. 5 in. × 3 in. ... ... ... ... | ,, | 1 | 15 | 0 |
| 4¾ in. × 1¾ in. ... ... ... ... ... ... | ,, | 3 | 5 | 0 |
| 5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ... | ,, | | 15 | 0 |
| 6 in. × 3 in. 24 in. × 7½ in. ... ... ... ... | ,, | 2 | 0 | 0 |
| 6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. ... ... ... | ,, | 1 | 5 | 0 |
| 12 in. × 5 in. 22 in. × 7 in. ... ... ... ... | ,, | 1 | 0 | 0 |

## METALS—*continued*

| | | £ | s. | d. |
|---|---|---|---|---|
| 9 in. × 7 in. / 10 in. × 8 in. / 12 in. × 8 in. / 14 in. × 5½ in. / 14 in. × 6 in. / 14 in. × 8 in. / 15 in. × 5 in. / 15 in. × 6 in. / 16 in. × 6 in. / 16 in. × 8 in. / 18 in. × 6 in. / 18 in. × 7 in. | per ton | | 10 | 0 |
| 18 in. × 8 in. / 20 in. × 6½ in. / 20 in. × 7½ in. | ,, | | 10 | 0 |
| Steel angles average price ... ... ... ... | ,, | 48 | 15 | 0 |
| Steel tees average price ... ... ... ... ... | ,, | 49 | 15 | 0 |
| Fabricated work delivered London— | | | | |
| R.S. Joists cut and fitted... ... ... ... ... | ,, | 67 | 19 | 0 |
| Compound girders... ... ... ... ... ... | ,, | 72 | 14 | 3 |
| Stanchions ... ... ... ... ... ... ... | ,, | 78 | 9 | 9 |
| Compound stanchions ... ... ... ... ... | ,, | 83 | 4 | 3 |
| In Roof Work—Trusses and Purlins ... ... | ,, | 93 | 19 | 6 |
| Average prices not for awkward work. | | | | |
| Angle cleats and ⅜ in., ½ in. and ⅝ in. bolts average price London area ... ... ... ... ... | per cwt. | 5 | 10 | 0 |

### Ferro-Concrete Bars and Fabric

| | | | | |
|---|---|---|---|---|
| Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ... | per ton | 40 | 10 | 0 |
| do. do. ex. London Stock do. delivered London site ... ... ... ... ... | ,, | 49 | 10 | 0 |
| Extras— | | | | |
| ¼ in. diam.... ... ... ... ... ... ... | per ton extra | 8 | 12 | 6 |
| 5/16 in. do. ... ... ... ... ... ... ... | ,, | 6 | 12 | 6 |
| ⅜ in. do. ... ... ... ... ... ... ... | ,, | 4 | 12 | 6 |
| ⅞ in. do. ... ... ... ... ... ... ... | ,, | 3 | 2 | 6 |
| ½ in. do. ... ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| ⅝ in. and ¾ in. diam. ... ... ... ... ... | ,, | | 15 | 0 |
| Steel wire mesh reinforcing fabric to BSS 1221A. | | | | |
| Ref. No. 106 ... ... 7.88 lbs. ... ... | per sq. yd. | | 5 | 2 |
| ,, ,, 109 ... ... 4.71 ,, ... ... | ,, | | 3 | 0½ |
| ,, ,, 113 ... ... 1.83 ,, ... ... | ,, | | 1 | 8½ |
| ,, ,, 122 ... ... 7.32 ,, ... ... | ,, | | 4 | 10½ |
| ,, ,, 125 ... ... 4.32 ,, ... ... | ,, | | 2 | 10½ |

### Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Tubes ... ... | per ft. | 9¾ | 10 | 1/– | 1/2½ | 1/9 | 2/3 | 2/8 | 2/9 |
| Bends ... ... | each | 1/7 | 1/9 | 2/– | 2/6 | 3/8 | 5/5 | 6/2 | 10/7 |
| Elbows, square | ,, | 1/8 | 1/10 | 2/2 | 2/6 | 3/– | 4/4 | 5/2 | 8/6 |
| do. round | ,, | 1/10 | 2/– | 2/4 | 2/10 | 3/4 | 4/8 | 5/8 | 9/4 |
| Tees ... ... | ,, | 2/– | 2/2 | 2/6 | 3/2 | 3/8 | 5/– | 6/2 | 10/2 |
| Crosses... ... | ,, | 4/4 | 4/8 | 5/6 | 6/6 | 8/2 | 11/– | 13/2 | 21/– |
| Sockets, Plain | ,, | 6 | 6 | 8 | 10 | 1/– | 1/4 | 1/9 | 2/6 |
| do. Diminished | ,, | 8 | 10 | 1/– | 1/2 | 1/6 | 2/– | 2/8 | 4/– |
| Backnuts ... | ,, | 4 | 4 | 6 | 7 | 10 | 1/– | 1/4 | 2/2 |

Malleable Fittings

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Elbows, round | each | 8½ | 8½ | 9½ | 1/2½ | 1/8½ | 2/7½ | 3/6 | 5/– |
| Tees ... ... | ,, | 9½ | 9½ | 1/– | 1/4¾ | 2/– | 2/9½ | 4/– | 5/6 |
| Crosses... ... | ,, | 1/2½ | 1/2½ | 1/4¾ | 2/– | 2/9½ | 3/7½ | 5/2½ | 7/2½ |
| Sockets... ... | ,, | 5¾ | 5¾ | 7 | 9½ | 1/– | 1/7½ | 2/2½ | 3/1½ |
| Backnuts ... | ,, | 3 | 3 | 3½ | 4½ | 5¾ | 7¾ | 10½ | 1/5½ |

Discounts from List prices as follows :—

| Galvanised Tube— | Under 1 ton | Over 1 ton | W.I. Fittings | Malleable Fittings |
|---|---|---|---|---|
| Light | −38¾% | −40½% | Light −25½% | Malleable List |
| Medium | −34¾% | −36½% | Heavy −21¾% | −14% + 40% |
| Heavy | −27 % | −28¾% | | |
| Black— | | | | |
| Light | −49 % | −50¾% | Light −31½% | Malleable List |
| Medium | −45 % | −46¾% | Heavy −27¾% | −14% |
| Heavy | −37½% | −39 % | | |

### C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

| | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 4/2½ | 3/9 | 1/1 |
| 3½ in. ... ... ... ... ... | 4/7 | 4/1 | 1/1 |
| 4 in. ... ... ... ... ... ... | 5/11 | 4/7 | 1/7 |
| 4½ in. ... ... ... ... ... | 6/6 | 5/1 | 1/11 |
| 5 in. ... ... ... ... ... ... | 7/3 | 5/6 | 2/3 |

### C.I.O.G. Gutters

| Per yd. in 6-ft. lengths : | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 5/5 | 4/11 | 1/3 |
| 3½ in. ... ... ... ... ... | 6/–½ | 4/11 | 1/7 |
| 4 in. ... ... ... ... ... ... | 6/8½ | 5/1 | 1/11 |
| 4½ in. ... ... ... ... ... | 7/3 | 5/10 | 2/3 |
| 5 in. ... ... ... ... ... ... | 7/11 | 6/8 | 2/7 |

### C.I. Rain-Water Pipes

| | Pipes | Bends | Branches |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 8/11½ | 4/7 | 6/7 |
| 2½ in. ... ... ... ... ... | 8/11½ | 5/1 | 8/10 |
| 3 in. ... ... ... ... ... ... | 10/1 | 6/5 | 9/7 |
| 3½ in. ... ... ... ... ... | 11/6 | 7/7 | 11/6 |
| 4 in. ... ... ... ... ... ... | 13/3½ | 9/2 | 13/7 |

### L.C.C. Coated Soil Pipes

| | | | |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 10/2½ | 7/10 | 9/7 |
| 2½ in. ... ... ... ... ... | 10/9 | 8/9 | 11/11 |
| 3 in. ... ... ... ... ... ... | 12/1 | 9/7 | 14/2 |
| 3½ in. ... ... ... ... ... | 13/6 | 11/11 | 16/6 |
| 4 in. ... ... ... ... ... ... | 15/4½ | 13/4 | 19/5 |

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 27½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

### L.C.C. Coated Drain Pipes

| | | £ | s. | d. |
|---|---|---|---|---|
| 4 in. diameter in 9 ft. lengths ... ... ... | per yd. run | 1 | 11 | 1 |
| 6 in. do. do. ... ... ... ... ... | ,, | 2 | 5 | 6 |
| 4 in. diameter bends ... ... ... ... ... | each | | 19 | 9 |
| 6 in. do. do. ... ... ... ... ... | ,, | 2 | 12 | 8 |
| 4 in. diameter branches ... ... ... ... ... | ,, | 1 | 15 | 1 |
| 6 in. do. do. ... ... ... ... ... | ,, | 4 | 4 | 2 |

Above prices for any quantity but under 5 cwt. carriage extra.

### Pitch Fibre Drain Pipes

| | | | |
|---|---|---|---|
| 2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings ... ... ... ... ... | per ft. run | 1 | 6½ |
| 3 in. do. ... ... ... ... ... ... | ,, | 1 | 10½ |
| 4 in. do. ... ... ... ... ... ... | ,, | 2 | 6 |
| 5 in. do. ... ... ... ... ... ... | ,, | 4 | 1½ |
| 6 in. do. ... ... ... ... ... ... | ,, | 5 | 0½ |
| 4 in. diameter short radius ¼ bends ... ... | each | 17 | 9 |
| 4 in. do. do. ½ bends ... ... | ,, | 12 | 11 |
| 2 in. diameter 6 ft. radius bends (5 ft. lengths) | ,, | 16 | 2 |
| 3 in. do. do. do. | ,, | 19 | 8 |
| 4 in. do. do. do. | ,, | 1 7 | 4 |
| 5 in. do. do. do. | ,, | 2 4 | 0 |
| 6 in. do. do. do. | ,, | 2 14 | 6 |

Above prices for loads of £60 and over.
Loads £25 to £59 19s. 11d. Plus 10%
Loads under £25 ... Plus 15%

### Asbestos Rain-Water Pipes and Fittings

| All less 17½% discount. | | 2 in. | 2½ in. | 3 in. | 4 in. |
|---|---|---|---|---|---|
| Pipes, 6 ft. lengths ... | ... per yd. | 4/7 | 4/10½ | 5/11 | 7/10 |
| Shoes ... ... ... | ... each | 3/– | 3/3 | 3/10 | 5/2 |
| Single Branches ... ... | ,, | 4/8 | 5/6 | 6/7 | 9/2 |
| Bends, square or obtuse ... | ,, | 3/3 | 3/7 | 4/8 | 6/7 |
| Swan Necks, 4½ in. proj. ... | ,, | 3/7 | 4/8 | 5/2 | 7/3 |
| do. 6 in. do. ... | ,, | 3/10 | 5/2 | 5/10 | 7/10 |

### Asbestos O.G. Gutters and Fittings

| | | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|
| Gutters, 6 ft. lengths | ... per yd. | 4/4 | 4/9½ | 5/9 | 6/10½ |
| Drop ends ... ... | ... each | 3/6 | 4/– | 4/9 | 5/5 |
| Stop ends ... ... | ... ,, | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... | ... ,, | 3/7 | 4/1 | 5/– | 5/10 |
| Nozzles ... ... | ... ,, | 3/6 | 4/– | 4/9 | 5/– |
| Union Clips ... ... | ... ,, | 1/9 | 2/1 | 2/6 | 2/11 |

### Asbestos Half-Round Gutters and Fittings

| | per | 3 in. | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|---|
| Gutters, 6 ft. lengths | yd. | 3/0½ | 3/7½ | 3/8½ | 4/4½ | 6/1 |
| Drop ends ... ... | each | 2/6 | 3/– | 3/3 | 3/7 | 5/2 |
| Stop ends ... ... | ,, | 1/– | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... | ,, | 2/10 | 3/3 | 3/7 | 3/10 | 5/2 |
| Nozzles ... ... | ,, | 2/6 | 3/– | 3/3 | 3/7 | 5/2 |
| Union Clips ... ... | ,, | 1/3 | 1/4 | 1/5 | 1/7 | 2/5 |

| | Per ton basis in London £ | s. | d. |
|---|---|---|---|
| Iron—Staffordshire Crown Merchant Quality ... ... | 52 | 17 | 6 |
| Mild Steel Bars ... ... ... ... ... ... ... | 47 | 8 | 6 |
| Mild Steel Hoops ... ... ... ... ... ... ... | 49 | 0 | 0 |

| | Ex Merchant's Stock per ton Two-ton lots £ | s. | d. |
|---|---|---|---|
| Soft Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 62 | 7 | 6 |
| 24 gauge ... ... ... ... ... ... ... ... | 64 | 17 | 6 |
| 26 gauge ... ... ... ... ... ... ... ... | 67 | 17 | 6 |
| Galvanised Corruguated Sheets, 6-ft. to 9-ft.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 70 | 4 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 73 | 14 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 78 | 19 | 0 |
| Galvanised Flat Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 71 | 14 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 75 | 4 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 80 | 9 | 0 |

## ALUMINIUM AND ALUMINIUM ALLOYS

| (Base Prices) | | £ | s. | d. |
|---|---|---|---|---|
| Sheet BS 1740 S1C 18 SWG (36 in. wide)... ... | per lb. | | 3 | 0½ |
| Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) | ,, | | 2 | 11½ |
| Coiled strip BS 1470 S1C 18 SWG (24 in. wide) | ,, | | 2 | 11½ |
| Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)... ... ... ... ... ... ... ... | ,, | | 2 | 11 |
| Coiled strip, high purity, 22 SWG (12 in. wide) | ,, | | 3 | 2 |
| Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG ... ... ... ... | per sheet | 1 | 14 | 1 |
| Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | ,, | 1 | 19 | 10 |
| Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | ,, | 1 | 13 | 1 |
| Extruded section BS 1476 E1C simple moulding | per lb. | | 2 | 10½ |
| Extruded section BS 1476 E1C 1 in. diam. round | ,, | | 2 | 8 |
| Extruded section BS 1476 HE19WP simple angle | ,, | | 3 | 2 |
| Extruded section BS 1476 HE19WP 1 in. diam. round ... ... ... ... ... ... ... | ,, | | 3 | 1 |
| Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ... | ,, | | 4 | 8 |
| Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG | ,, | | 6 | 3 |

## PLUMBERS' BRASS WORK, etc.

Delivered in London area.

| All per dozen | B.S.S. ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown bib cocks Crutch head for iron... ... ... | 87/– | 128/– | — | — | — | — |
| Toilet bib cocks for iron ... | 109/– | 158/5 | — | — | — | — |

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# but now

## they're fitted with

# Leonard

## thermostatic mixing valves

In hospitals, for example—but not only for nurses', doctors' and patients' showers; Leonard thermostatic valves are used for water temperature control in hydrotherapy, X-ray film development, infants' baths, basins, scrub-ups, sprays, and many other outlets, from the canteen to the laundry.

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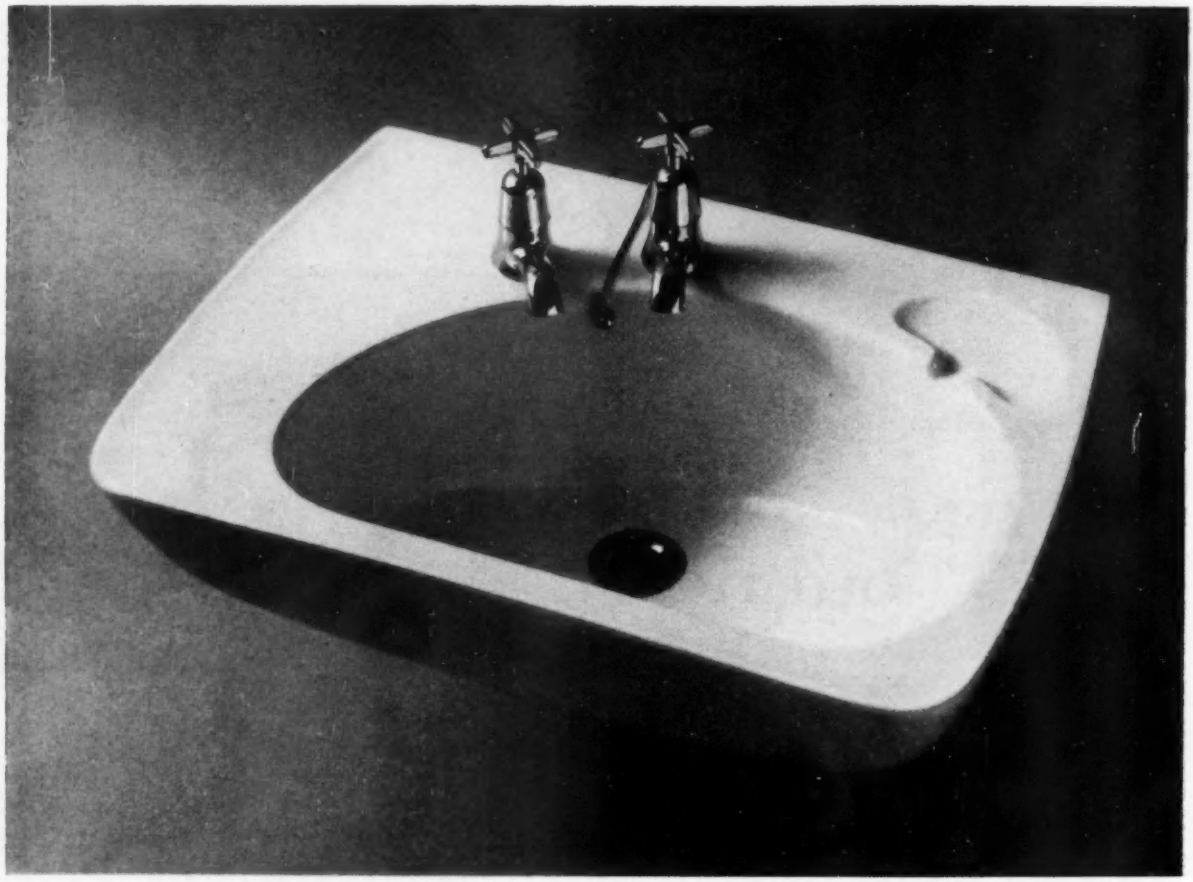

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## PLUMBERS' BRASS WORK, etc.—*continued*

| All per dozen | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown stop cocks for iron | 66/- | 95/9 | 188/- | 363/- | 522/6 | 917/6 |
| do. with two unions for lead | 89/- | 132/- | 234/4 | 472/- | 623/6 | 1,389/6 |
| Double nut boiler screws ... | 18/8 | 26/5 | 47/6 | 48/6 | 67/- | 93/6 |
| Heavy Croydon ball valves ... | 77/- | 193/6 | 312/5 | 568/8 | 734/10 | — |
| Plumbers' union brass lead to iron ... ... ... ... | 19/6 | 23/6 | 38/6 | 52/10 | 70/6 | 165/- |
| | 1¼ in. | 1½ in. | 2 in. | 3 in. | 3½ in. | 4 in. |
| Caps and Screws ... ... | 33/- | 40/8 | 59/6 | 92/5 | 118/10 | 155/3 |
| Brass Sleeves ... ... ... | — | 31/11 | 31/11 | 56/2 | 74/10 | 91/5 |
| | 1¼ × 6 lb. | 1½ × 6 lb. | | 2 × 7 lb. | | 3 × 7 lb. |
| Lead P. trap with brass cleaning screws ... ... ... | 68/6 | 85/6 | | 137/- | | 233/9 |
| Lead S. trap do. do. | 82/9 | 102/9 | | 168/3 | | 302/3 |

| Solder : | | | | s. | d. |
|---|---|---|---|---|---|
| Plumbers' ... | 1 cwt. lots | 320/- | 14 lb. lots per lb. | 3 | 7 |
| Tinmen's ... ... | ,, ,, | 404/- | ,, ,, ,, | 4 | 5 |
| Blow pipe ... | ,, ,, | 407/- | ,, ,, ,, | 4 | 6 |

### Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 28d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

| | Extra d. | | d. | | d. |
|---|---|---|---|---|---|
| ⅛ in. × 19 gauge | 16⅛ | Total per lb. | 44⅛ | Approx. per ft. | 12 |
| ¾ in. × 19 ,, | 14⅞ | ,, ,, | 42⅞ | ,, ,, | 16½ |
| 1 in. × 18 ,, | 12⅞ | ,, ,, | 40⅞ | ,, ,, | 25½ |
| 1¼ in. × 18 ,, | 12½ | ,, ,, | 40½ | ,, ,, | 30½ |
| 1½ in. × 18 ,, | 12½ | ,, ,, | 40½ | ,, ,, | 36¾ |
| 2 in. × 17 ,, | 13⅞ | ,, ,, | 41⅞ | ,, ,, | 58½ |

Small Quantity extras :

| | |
|---|---|
| 10 cwts. to 5 cwts. ... ... ... ... ... | plus ½d. per lb. |
| 5 cwts. to 2 cwts. ... ... ... ... ... | ,, 1d. ,, |
| 2 cwts. to 1 cwt. ... ... ... ... ... | ,, 2d. ,, |

| | £ | s. | d. |
|---|---|---|---|
| Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras ... ... ... ... | 272 | 10 | 0 |

### Zinc

| | | £ | s. | d. |
|---|---|---|---|---|
| Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards | per cwt. | 7 | 18 | 9 |
| ,, ,, 12 gauge (23 SWG), ,, ,, ,, | ,, | 7 | 18 | 3 |
| ,, ,, 14 gauge (21 SWG), ,, ,, ,, | ,, | 7 | 17 | 0 |

### Brass Tube

| | | | |
|---|---|---|---|
| Brass tubes, basic price, plus gauge and manufacturing extras ... ... ... ... ... ... | per lb. | 1 | 10⅞ |

## LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

| | | £ | s. | d. |
|---|---|---|---|---|
| Lead Sheet, English, 3½ lb. substance and upwards | per ton | 104 | 15 | 0 |
| ,, Water Pipe, in coils ... ... ... ... | ,, | 107 | 0 | 0 |
| Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia. | ,, | 108 | 10 | 0 |
| ,, ,, ,, over 4 in. dia. ... ... ... | ,, | 110 | 10 | 0 |
| ,, Gas or Untinned Compo pipe... ... ... | ,, | 108 | 10 | 0 |

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt. :

| | | | |
|---|---|---|---|
| 3 cwt. and under 5 cwt. ... ... ... ... | per cwt. | 4 | 0 |
| 1 cwt. do. 3 cwt. ... ... ... ... | ,, | 6 | 0 |

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipes to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £53 0s. 0d. per ton weighed at buyer's works.

## PLASTER, etc.

| | | £ | s. | d. |
|---|---|---|---|---|
| Coarse Pink in 1-ton loads and over delivered on site | per ton | 8 | 11 | 3 |
| do. White do. do. do. | ,, | 9 | 0 | 9 |
| Sirapite Coarse BSS 1191 Class C do. | ,, | 9 | 2 | 9 |
| do. Fine do. do. do. | ,, | 9 | 10 | 6 |
| do. Browning BSS 1191 Class B do. | ,, | 9 | 2 | 9 |
| do. Board Finish do. do. | ,, | 9 | 2 | 9 |
| Blue Lias Lime, in 6-ton loads ... ... ... | ,, | 6 | 17 | 6 |
| Hydrated Lime (Grey) in 6-ton loads ... ... | ,, | 5 | 10 | 0 |
| do. (White) do. ... ... ... | ,, | 6 | 0 | 0 |
| Lump Lime (Grey) do. ... ... ... | ,, | 5 | 7 | 0 |
| do. (White) do. ... ... ... | ,, | 5 | 14 | 6 |
| White Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 7 | 6 |
| Pink Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 2 | 3 |
| Granite Chips, in 6-ton loads ... ... ... | ,, | 2 | 6 | 9 |
| Hair ... ... ... ... ... ... ... ... | per cwt. | 4 | 17 | 6 |
| Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site | per yd. | 2 | 2½ | |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | 2 | 1½ | |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | 2 | 8 | |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | 2 | 7 | |
| Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... ... ... | ,, | 2 | 5½ | |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | 2 | 4½ | |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | 2 | 11 | |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | 2 | 10 | |

## PAINTS AND DISTEMPER

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| Ceiling Distemper ... ... ... ... ... ... | per cwt. | 1 | 7 | 6 |
| Washable Distemper ... ... ... ... ... | ,, | 5 | 15 | 0 |
| Gloss Paint ... ... ... ... ... ... ... | per gal. | 2 | 16 | 0 |
| Super Snowcem cement paint (in 1 cwt. drums) ... | per cwt. | 5 | 0 | 0 |

### Lead Products and Oils

| | | £ | s. | d. |
|---|---|---|---|---|
| Ground White Lead, in 1 cwt. kegs ... ... ... | per cwt. | 8 | 7 | 6 |
| Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins | per gal. | 3 | 6 | 6 |
| Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots) | per cwt. | 5 | 12 | 6 |
| do. do. do. (1 cwt. lots) | ,, | 6 | 19 | 0 |
| Genuine Linseed Oil Putty, 1 cwt. keg ... ... | ,, | 2 | 13 | 6 |
| Size XD quality 28 lb. ... ... ... ... ... | per tin | | 9 | 0 |
| Raw Linseed Oil (5 gal.) drums extra ... ... | per gal. | | 16 | 9 |
| Boiled Linseed Oil (5 gal.) do. ... ... | ,, | | 17 | 8 |

### Sundries

| | | | |
|---|---|---|---|
| Turpentine substitute ( 5 gal.) drums extra ... | ,, | 5 | 4½ |
| do. do. (40 gal.) do. ... ... | ,, | 4 | 8½ |
| Solignum, Brown (5 gal. cans) Exterior ... ... | ,, | 10 | 0 |
| Creosote (40 gal. barrels) ... ... ... ... | ,, | 2 | 3 |
| Paste Powder (1 lb. packets) ... ... ... | per lb. | 2 | 4 |
| White Lining Paper ... ... ... ... ... | per piece | 1 | 2 |

## VARNISHES, etc.

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| Oak Varnish, Outside or Inside ... ... ... | per gal. | 2 | 0 | 0 |
| Oak, Pale Copal do. do. ... ... ... | ,, | 2 | 0 | 0 |
| Hard Drying Oak for Inside ... ... ... ... | ,, | 2 | 5 | 0 |
| Crystal Paper Varnish do. ... ... ... ... | ,, | 2 | 8 | 0 |
| Eggshell Flat Varnish do. ... ... ... ... | ,, | 2 | 2 | 0 |
| Finest Carriage Varnish ... ... ... ... ... | ,, | 2 | 7 | 0 |
| Front Door Varnish ... ... ... ... ... | ,, | 2 | 4 | 0 |
| Japan Gold Size ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Black Japan ... ... ... ... ... ... ... | ,, | 1 | 16 | 0 |
| Brunswick Black ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Berlin Black ... ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| Terebene ... ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Knotting (1 gal. bottles free) ... ... ... ... | ,, | 1 | 15 | 0 |
| French and Brush Polish (do.)... ... ... ... | ,, | 1 | 15 | 0 |

## GLASS

| Delivered London area. | | s. | d. |
|---|---|---|---|
| 18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes... ... ... ... ... ... | per ft. sup. | | 10 |
| 24 oz. do. do. do. do. | ,, | 1 | 0½ |
| 26 oz. do. do. do. do. | ,, | 1 | 3 |
| 32 oz. do. do. do. do. | ,, | 1 | 7½ |
| ⅛ in. Rolled Plate... ... ... ... ... | ,, | 1 | 3¾ |
| 3/16 in. Rolled and Rough Cast... ... ... ... | ,, | 1 | 6½ |
| ¼ in. do. do. ... ... ... | ,, | 1 | 7½ |
| ⅛ in. Figured Rolled and Cathedral, Standard patterns— | | | |
| White Group 1 ... ... ... ... ... | ,, | 1 | 3½ |
| do. Group 2 ... ... ... ... ... | ,, | 1 | 9¾ |
| do. Standard Tints ... ... ... ... ... | ,, | 2 | 1½ |
| do. Special Tints ... ... ... ... ... | ,, | 7 | 3 |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3 ... ... ... ... | ,, | 1 | 8½ |
| ¼ in. Wired Cast up to 50 in. ... ... ... ... | ,, | 1 | 10½ |
| ¼ in. do. do. 50 in. to 72 in. ... ... ... | ,, | 2 | 2½ |
| ¼ in. Georgian Wired Cast ... ... ... ... | ,, | 1 | 11 |

Hollow Glass Blocks—

| | | | | |
|---|---|---|---|---|
| P.B.2 | Cross reeded | 5¾ × 5¾ × 3⅞ in. ... ... | each | 3 9 |
| P.B.3 | Broad reeded | 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 9 |
| P.B.32 | Cross reeded | 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 9 |
| P.B.4 | Prismatic | 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 6 6 |
| P.B.5 | Flemish | 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 9 |
| P.B.6 | Boomerang | 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 6 6 |

Half Size Blocks—

| | | | | |
|---|---|---|---|---|
| P.B.32 | Cross reeded | 7¾ × 3¾ × 3⅞ in. ... ... | ,, | 4 10 |

Radiused Corner Blocks to match up with—

| | | | | |
|---|---|---|---|---|
| P.B.2 | Cross reeded ... ... ... ... ... | ,, | 8 | 1 |
| P.B.3 | Broad reeded... ... ... ... ... | ,, | 9 | 8 |
| P.B.32 | Cross reeded ... ... ... ... ... | ,, | 9 | 8 |

P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.

| ¼ in. Polished Plate Glass, G.G. quality— | | | |
|---|---|---|---|
| In plates not exceeding 2 ft. sup. ... ... | per ft. sup. | 4 | 7 |
| ,, ,, ,, 5 ft. sup. ... ... | ,, | 5 | 7 |
| ,, ,, ,, 45 ft. sup. ... ... | ,, | 7 | 6 |
| ,, ,, ,, 100 ft. sup. ... ... | ,, | 7 | 6 |
| ¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ... | ,, | 11 | 4 |
| Not exceeding 180 ft. sup. or do. ... ... | ,, | 15 | 0 |

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

| Description of Glass— | Minimum quantity | per ft. sup. s. | d. |
|---|---|---|---|
| 18 oz. sheet O.Q. ... ... ... ... ... ... | 3,000 | | 7½ |
| 24 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 9½ |
| 26 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 11½ |
| 32 oz. ,, ,, ... ... ... ... ... ... | 2,000 | 1 | 3½ |
| ⅛ in. Rolled Plate... ... ... ... ... ... | 1,000 | | 10¾ |
| ⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1 ... ... ... | 1,000 | | 10⅞ |
| do. Group 2 ... ... ... | 1,000 | 1 | 2⅛ |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3 ... ... ... | 1,000 | 1 | 2⅜ |
| 3/16 in. Rolled Plate or Rough Cast ... ... ... | 2,000 | 1 | 2 |
| ¼ in. do. do. ... ... ... | 2,000 | 1 | 2½ |
| ¼ in. Wired Cast, Hexagonal up to 50 in ... | 2,000 | 1 | 5 |
| ¼ in. do. do. do. 50 in. to 72 in. ... | 2,000 | 1 | 9 |
| ¼ in. Georgian Wired Cast ... ... ... ... | 2,000 | 1 | 5½ |

# THE BUILDER RATES OF WAGES

**AS FROM FEBRUARY 6th., 1961. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors)**

**1. Craftsmen and Labourers.**

| Region | Craftsmen | Labourers |
|---|---|---|
| | s. d. | s. d. |
| England & Wales (Grade A) ... | 5 0 | 4 4½ |
| London ... ... | 5 1½ | 4 6 |
| Liverpool and District ... | 5 1½ | 4 6 |
| Scotland... ... | 5 0 | 4 4½ |

**2. Apprentices.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 25 | 1 3½ | 1 3 |
| 16 | 33½ | 1 8½ | 1 8 |
| 17 | 50 | 2 6½ | 2 6 |
| 18 | 62½ | 3 2½ | 3 1½ |
| 19 | 75 | 3 10½ | 3 9 |
| 20 | 87½ | 4 6 | 4 4½ |

**3. Young Male Labourers.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales and Scotland |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 33⅓ | 1 6 | 1 5½ |
| 16 | 45 | 2 0½ | 1 11½ |
| 17 | 66⅔ | 3 0 | 2 11 |
| 18 | 100 | 4 6 | 4 4½ |

NORTHERN IRELAND is not included; rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 6d. in London and Liverpool District, and 26s. 3d. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country except in Scotland the rate of wages for women, aged 19 and over, engaged in craft processes is 4s. 1½d. per hour. Women engaged on work other than craft processes, 3s. 9½d. per hour. In Scotland the rate for the woman craftsman is 4s. 4½d. after a probationary period, and the woman labourer, 3s. 10½d.

## New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

ABBOTT OF SOUTHAMPTON LTD.—Regd. April 25, 1961. Pblc. wks. contrs., bldrs., etc. Nom. cap.: £100. Dir.: The Hon. W. H. Watson-Armstrong, 237 Knightsbridge, SW7.

V. C. SILCOCK & CO. (CONTRACTORS) LTD.—Regd. April 25, 1961. Bldrs., etc. Nom. cap.: £5,000. Sub.: Victor C. Silcock, 189 Ashgate-rd., Chesterfield.

SOUTHERN & RYAN (MARGATE) LTD.—Regd. April 20, 1961. 9 Cecil-sq., Margate. Secy.: J. Ryan. Bldrs., etc. Nom. cap.: £100.

ROBERTS & CAWTHERA LTD.—Regd. April 26, 1961. 20 Moorside-dr., Leeds 13. Secy.: F. Roberts. Bldrs., etc. Nom. cap.: £100.

SOUTH COAST BUILDERS (BOGNOR REGIS) LTD.—Regd. April 26, 1961. Hook-la., Bognor Regis, Sussex. Secy.: R. W. T. Richardson. Nom. cap.: £1,000.

F. H. & G. HOLDSWORTH BROS. LTD.—Regd. April 26, 1961. Albert Villa, Worlds End-la., Green-st.-Green, Orpington, Farnborough, Kent. Secy.: Eileen J. Holdsworth. Bldrs., etc. Nom. cap.: £100.

H. A. FIELDER & SON LTD.—Regd. April 26, 1961. 2 Egmont-ave., Tolworth, Surbiton, Surrey. Secy.: F. J. Lee. Bldrs., etc. Nom. cap.: £300.

JENNINGS & GEARY LTD.—Regd. April 26, 1961. 55 Chesterfield-rd., Downend, Bristol. Bldrs., etc. Nom. cap.: £2,000.

W. C. TUNGATT & CO. LTD.—Regd. April 27, 1961. 210 Queens-rd., Buckland, Portsmouth. Secy.: Douglas Jones. Bldrs., contrs., etc. Nom. cap.: £1,000.

BERNARD BREEN LTD.—Regd. April 27, 1961. 39 Pathfield-rd., SW16. Bldrs., etc. Nom. cap.: £1,000.

GEO. A. SCANLAN & SON LTD.—Regd. April 27, 1961. 125 Nantwich-rd., Crewe, Ches. Secy.: Winifred Hardy. Bldrs., etc. Nom. cap.: £5,000.

LISCOMBE BROS. & BROWN LTD.—Regd. April 28, 1961. The Armoury, Eastgate-st., Cowbridge, Glam. Secy.: W. J. Liscombe. Bldrs. and decrs., etc. Nom. cap.: £3,000.

PETTITT & SON (SEAFORD) LTD.—Regd. April 28, 1961. 18 Sutton Park-rd., Seaford, Sussex. Secy.: F. J. Pettitt. Bldrs., etc. Nom. cap.: £100.

BIRCHINGTON BUILDERS LTD.—Regd. April 28, 1961. 2 Kings-ave., Minnis Bay, Birchington. Secy.: W. Baker. Nom. cap.: £10,000.

G. W. HITCHCOX LTD.—Regd. April 28, 1961. 57 High-st., Caterham, Surrey. Secy.: Monica G. Rich. Bldr. and contr., etc. Nom. cap.: £2,000.

J. & M. GALLAGHER (BUILDERS) LTD.—Regd. April 28, 1961. 2 Queens-rd., Watford. Secy.: Mary E. Gallagher. Nom. cap.: £1,000.

G. R. RITCHARDS & SON LTD.—Regd. May 1, 1961. 142 Jubilee-cres., Coventry. Secy.: Donald E. G. Wing. Bldrs., bldrs.' mchts., cvl. engrs., etc. Nom. cap.: £100.

WM. SHEPHERDSON & SONS LTD.—Regd. May 1, 1961. 26 Hartshead-st., Lees, nr. Oldham. Secy.: J. Shepherdson. Contrs., bldrs., etc. Nom. cap.: £5,000.

TRISTRAY LTD.—Regd. May 1, 1961. 46-48 Frogmore, High Wycombe. Secy.: S. R. Bosher. Bldrs., etc. Nom. cap.: £1,000.

COLNET LTD.—Regd. May 2, 1961. 17 Upper Grosvenor-rd., Tunbridge Wells, Kent. Secy.: A. E. Colnet. Bldrs. and contrs., etc. Nom. cap.: £1,000.

R. O. AYRES (BOLNEY) LTD.—Regd. May 2, 1961. Bldrs., etc. Nom. cap.: £5,000. Dir.: Roland O. Ayres, 61 The Common, Bolney, Sussex.

## Flooring Materials

*Measurement of Wear and Tear by Walking*

GENERAL-PURPOSE MACHINES for the measurement of abrasion resistance are unsuitable for assessing the resistance of flooring materials to wear by foot traffic. The most promising approach to providing a suitable machine appears to be to simulate the action of a foot on a flooring material. A research paper, number 32 in the National Building Studies series, published on March 29, describes measurements made for this purpose of the forces applied to a floor surface by the foot. A specially designed 'force-plate' was used to measure horizontal and vertical forces, and photographic determinations were made, through a glass plate, of the changing area of contact. Special attention was also paid to the problem of slipperiness. In all cases measurements were made both for walking in a straight line and when turning.

Various patterns of walking were revealed by the men and women taking part in the tests. These and the other results obtained are summarised; and the design criteria are given for an abrasion-testing machine for flooring materials, which has been constructed at the Building Research Station and which will be used for further investigations. The research paper, 'The Forces Applied to the Floor by the Foot in Walking,' is available, price 3s. 6d. from HMSO.

## Plastering Conference

*Speakers on New Developments*

AT THE CONFERENCE on developments in plastering arranged by the National Federation of Plastering Contractors to take place at the Connaught Rooms, London, on June 20, the following will introduce the main subjects to be discussed: 'Mechanisation in Plastering Operations,' Mr. John S. Cook, a past-president of the NFPC, of Messrs. Geo. Cook & Sons, Ltd., Cambridge; 'Fire Protection by Plaster,' Mr. A. R. Mackay, of Messrs. Frederick Snow & Partners, consulting engineers, London and Norwich; 'Plaster in Modern Building,' Mr. J. S. Cothliff, a past-president of the NFPC, of John Cothliff Ltd., Liverpool; and Mr. T. G. Bowler, of James Walker (Architectural Decorations) Ltd., London.

Applications for tickets should be made as early as possible to the NFPC, 82 New Cavendish-street, W1. The price of tickets, including luncheon, is £2 2s. each.

## British Standard

*Protective Canvas Sheets for Overhead Work in Non-Corrosive Atmospheres*

*(BS 3349 : 1961)*

OVERHEAD WORK BY BUILDERS, demolition squads, engineers, painters and others should be less hazardous to the passer-by when protective sheets of the kind specified in this British Standard (price 4s. 6d.) are in use. The sheets are designed to catch falling tools, materials and debris and thus protect passers-by from possible injury. It is emphasised that they are not intended as safeguards for the overhead workers themselves, for whom other precautions are required. Detailed requirements and tests are laid down for the materials, proofing and making up of the sheets, to ensure that they are strong, rot-proof and water-proof.

Copies of this standard may be obtained from the British Standards Institution, Sales Branch, 2 Park-street, London, W1.

# 'LEAD ASBEX'...*

highest grade flexible Bitumen Dampcourse —Asbestos based with a lead core.

Also available without lead core—'Asbex' *

**dampcourses by PERMANITE LTD**

designed and made with your reputation in mind, as well as our own.

* **'LEAD ASBEX'** conforms to B.S. 743 : 1951 Type 5F. **'ASBEX'** conforms to B.S. 743 : 1951 Type 5C.

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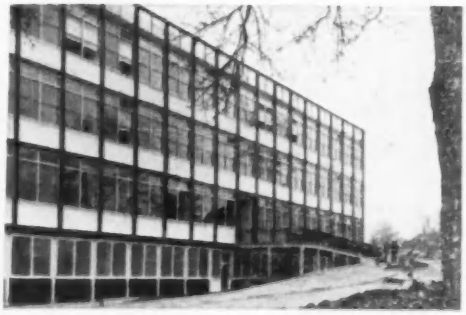
# LINOLEUM belongs to Modern Living



*With acknowledgements to Yorke, Rosenberg & Mardall, Archts, FF FRIBA Architects to the SW Metropolitan Regional Hospital Board*

Ask any architect—he will tell you that today linoleum is one of the most versatile weapons in his creative armoury. Its applications are so wide. It expresses brilliantly the mood of any decorative theme—contemporary or period. And a constant flow of new colours and styles gives scope for endless variety of 'personalised' and novel designs. In other ways, too, linoleum belongs to modern living. It is so easy to care for—so quick to clean. It is quiet to the tread and no flooring equals linoleum for long wear . . . Always plan for linoleum. *Illustrated left: the first stage of the new Crawley Hospital makes extensive use of today's finest flooring—linoleum.*

"THELMA" stands for THE LINOLEUM MANUFACTURERS' ASSOCIATION, 127 VICTORIA STREET LONDON, S.W.1. *For further information write to the Association or to any of the following members:* **BARRY OSTLERE & SHEPHERD LTD.**, Kirkcaldy · **DUNDEE LINOLEUM CO. LTD.**, Dundee **LINOLEUM MANUFACTURING CO. LTD.**, 6 Old Bailey, London, E.C.4 · **MICHAEL NAIRN & CO. LTD.**, Kirkcaldy · **NORTH BRITISH LINOLEUM CO. LTD.**, Dundee · **SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LTD.**, Falkland, Fife · **JAS. WILLIAMSON & SON LTD.**, Lancaster.

THELMA

# TECHNICAL REVIEW

*This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 178 of this issue. The form can be used for more than one inquiry.*

## 1. Power Unit

A useful means of providing power on site is offered by a mobile POWER TRUCK, which will be shown at the Building and Public Works Exhibition, Belle Vue, Manchester from July 5-15. It uses a new method of drive to enable a single engine to supply power direct to the equipment which has to be driven and power also to the transmission. In the direct drive to the equipment no gears are employed and consequently no power loss is sustained.

Basically, the unit consists of 'Thames' ¾-ton components and is powered by the Ford 592E 4-cylinder diesel engine. It will travel at normal road speeds and qualifies for operation on industrial fuel oil. It can be adapted to suit the needs of various types of equipment but would seem particularly suitable for providing power for compressors, generator sets, welding sets and pumps.

*H. & J. Quick, Ltd.,*
*Wilmslow-rd., Cheadle, Cheshire.*

## 2. Contractors' Plant

Another new exhibit at The Building and Public Works Exhibition is a HYDRAULIC HAMMER which could be a useful piece of equipment for road work. It can be fitted with a variety of cutting or tamping heads and is very quiet in operation. Not only does it save labour but the tamping efficiency claimed for it is such that there should be no need to carry away surplus material when a trench has been refilled. Nor should the filled trench ever subside after standing. The hammer can also be used to drive short piles or posts up to six or seven feet.

*Lemand Machinery Ltd.,*
*Rowsley, Derbyshire.*

## 3. Roofing

A new plastic ROOFING COMPOUND has been produced specifically for weatherproofing most roof surfaces such as timber, concrete and felt. After application it dries in a few hours leaving no joints or overlaps for water to penetrate. As the compound is exceptionally flexible, it will resist any shrinking or swelling of the building material beneath it and so eliminate subsequent cracking. It is reputed to have a tensile strength of 1,000 lb. per sq. in.

*Plastics & Resins, Ltd.,*
*Vulcan-rd, Bilston, Staffs.*

## 4. Miscellaneous

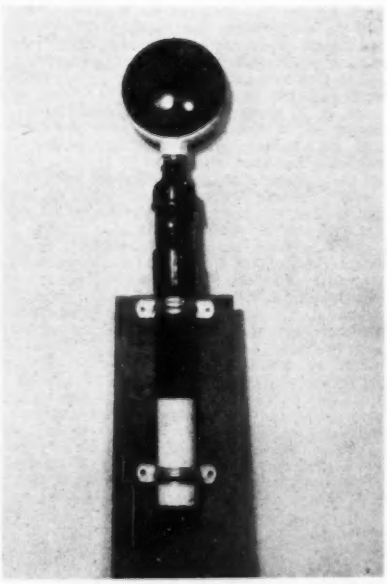
A fully automatic ADJUSTABLE HINGE, now patented in this country, has five positive locking positions. At 135° the hinge is locked in the fully open position. From 135° to 105° adjustment can be made through four stages, each movement being of 7½°. The feature here is that the angle of inclination can be chosen without manipulating any buttons or levers. A sixth movement releases the action either to the close position or return to fully open. The hinge is robust, being made from pressed steel of high quality, and the simplicity of the action would make it suitable for use in many types of domestic, office, hospital, and industrial furniture.

*A. Arenson, Ltd.,*
*Porters Wood, Valley-rd, St. Albans, Herts.*

## 5. Traffic Signs

A TRAFFIC BEACON has recently been designed to comply with the latest Road Traffic regulations. These permit the use of flashing red signs in conjunction with temporary road signs in order to convey to drivers that extra care is needed. The beacon consists of a lens surmounting an electronic switch and a battery, which are housed in a section of 1½ in. steel tube. This tube can be secured by all types of scaffold fittings to steel scaffolding and by means of pipe saddles or clips to wooden boards. Alternatively, the beacon can be screwed into an additional length of pipe and embedded in a solid block of concrete or into the ground.

The bulb, switch and battery are sealed into the pipe and are weatherproof. The operating mechanism consists of an electronic switch comprising transistors, capacitors and resistances operated from a 6-volt battery. There are no moving parts and there is no interference with radio or television transmissions. The lens are of 5 in. diameter and the rate of flash is 60 flashes per minute with a dark period of just under .6 of a second.



*A new type of battery operated flashing beacon designed to comply with the latest Road Safety Regulations*

If switched on and left running continuously day and night, the life of the battery is just over one month, but if the lamp is turned off during the hours of daylight, the life of the battery will be extended by about 25 per cent, giving an operating life of some 10 weeks.

*The Econ Lamp Co.,*
*166 Dixons Hill-rd., North Mimms, Hatfield, Herts.*

## 6. Doors

Glass-fibre reinforced plastic GARAGE DOOR GEAR, claimed to be quiet in action, dimensionally stable and exceptionally strong, has recently been marketed. The door, which has ribbing and extra strengthening at the back, is supported at the top by silent rollers with self-lubricating bearings. These run in cold rolled steel tracks fixed to the side walls and fitted with built-in rubber stops to check the door when opened.

The door is balanced on drop forged steel arms mounted on substantial pivot bearings, and controlled by heavy duty coil springs with adjustable tension to allow the door to be perfectly balanced. The arrangement of the pivot bearings gives a positive self-closing action during the last few degrees of travel. The steel weather strips provide complete weather protection on both sides of the opening and are so designed that erection of all components is extremely simple.

*Reinforced Plastics Ltd.,*
*Bath-la., Leicester.*

## 7. Technical Publications

(a) Villiers have recosted their entire ranges of post-war Villiers and JAP engine spares and have published the revised retail price list in the form of a loose-leaf folder. Running to 114 pages and involving more than 10,000 replacement parts, sub-assemblies and service exchange units, the list is published for the benefit of manufacturers of Villiers and JAP-engined machines, service depots and dealers, factors, stockists and large-scale operators. Villiers and JAP spares are kept separate, but each range is listed in numerical order, irrespective of engine type.

The new price list, for which alterations and additions will be issued free as and when the occasion demands, can be obtained, price 10s., from the Service Department, The Villiers Engineering Co. Ltd., Wolverhampton.

(b) A pamphlet describing Noral Treadplate, an aluminium flooring material with a pattern of raised lozenges, has been published by Alcan Industries of Banbury, Oxfordshire. It is said to provide a safe foothold under all conditions of use in factories, goods vehicles and shops. Full technical data is given to enable the most suitable size and alloy to be selected for any particular application. Copies can be obtained from the company.

# News in Brief

### Torquay Flat Developments

UNTIL very recently Torquay has been completely devoid of purpose built flats, but now with the town council's support a number of sites will be developed. The Bell Properties (Construction) Ltd. has recently acquired four sites in the town and building has commenced on the first of these, which will be known as Asheldon House, Asheldon-road, Torquay, on which a block of 20 luxury flats will be built. The second site to be developed will be Rozel, Lincombe-drive, Torquay, with extensive sea views of Torbay. The development in this case will take every advantage of the southerly sheltered slope of the tropical grounds. The Bell Properties (Construction) Ltd. of 49 Charles-street, London, W1, have engaged the services of Michael Lyell Associates as architects for these two sites and Mr. A. P. R. Nicolle, FAI, 62 Fleet-street, Torquay, has been appointed the sole selling agent for the company in Torquay. Due to extensive developments in the West Country over the past few months, The Bell Properties (Construction) Ltd. has opened an office in Exeter and appointed Mr. Frank Watson as the area manager.

### Mormon Church, Kensington

IN THE MORMON CHURCH, Kensington, illustrated in 'The Builder' of May 5, all the interior sliding door gear was supplied by P. C. Henderson Ltd., Harold Hill, Romford, Essex. We regret any inconvenience caused through the omission of this information.

### Northern Area Sales Office

MESSRS. JAMES GIBBONS LTD., window and ironmongery manufacturers, on May 8 opened a new northern area sales office at 5-7 New York-road, Leeds, 2, for the convenience of architects and builders in the three Ridings of Yorkshire and the four northern counties.

### Change of Address

THE LAING HOUSING COMPANY LTD., which is developing private housing estates in various parts of the country, has moved from Lowther-road, Stanmore, to new offices at 58 Edgware-way, Edgware, Middlesex.

### Lead Development Association

THE LEAD DEVELOPMENT ASSOCIATION today (May 19) vacates its offices at 18 Adam-street, London, WC2, to move to 34 Berkeley-square, London, W1. The office will reopen at the new address after the Whitsuntide holiday on May 23. The telephone number will be Grosvenor 8422.

### New Hospital Building Note

GUIDANCE on the design of radiological departments is given in Ministry of Health Hospital Building Note No. 6 'Diagnostic X-ray Department,' published on May 18 by HM Stationery Office (price 1s. 6d. net). This is the ninth note in the new series to be published.

### Farm Buildings Competition Result

FARMERS SHOWING ORIGINALITY in design, siting and the use of materials have secured the top awards in the Country Landowners' Association's first National Farm Buildings Competition. The competition, which attracted 123 entries from 41 counties, was for a milking parlour layout built since 1948. The first prize has been shared between Mr. L. B. Thwaites (Warwickshire) and Mr. E. C. Vestergaard (Northants), the latter in respect of a parlour installed at Whitchurch in Shropshire. Both have received £112 10s. The judges were Mr. E. M. Owens, a Somerset farmer, Mr. Peter Dunham, FRIBA, and Mr. N. E. B. Elgar, a Somerset land agent.

## Company News

The turnover of the TAYLOR WOODROW GROUP of building and civil engineering companies in 1960 (excluding that of associated companies) was £33½ million, an increase of £4 million on the previous year, it is disclosed by the chairman, Mr. Frank Taylor, in his 26th annual statement to shareholders. Profits, after taxation, were £446,003, compared with £702,812 as reported in the Taylor Woodrow statement of March 29. 'This position,' states Mr. Taylor, 'is in the main attributable to the unfavourable weather conditions experienced on building and civil engineering sites in the United Kingdom during the year, coupled with continuing intensive competition which adversely affected profit margins.' A final dividend of 7½ per cent. has been recommended.

THE RAWLPLUG CO. LTD. recommend the payment of a final dividend of 30 per cent (less tax) on the ordinary shares of the company for the year ended December 31, 1960.

## Personal Column

DIMPLEX LTD., of Millbrook, Southampton, announce the appointment of MR. C. AUBREY BENNETT to the sales organisation of the company. Mr. Bennett, who joins Dimplex from the Radiation Group of Companies, took up his appointment on April 17. He will be responsible for promotional activities with Government Departments and Ministries, Architects, Building Contractors, Local Government Officers, large industrial users and the Gas Boards.

MR. G. A. MANWOOD has resigned from the Board of Manwood Miller Fans & Filters Ltd., an associate company of Copperad Ltd. He will, however, continue to be available to the company in a consultative capacity.

MR. J. B. HARDWICK has just taken up the position of resident representative in Ghana for Williams & Williams Ltd.

MR. K. MARTIN has joined Braithwaite & Co. Engineers Ltd., as a technical sales executive attached to their subsidiary company, Braithwaite & Co. Structural Ltd.

MR. A. R. DALE HARRIS has resigned his directorships of The Unit Construction Co. and Pierhead Ltd. to take up his appointment as managing director of Edendale Properties Ltd., at 34 St. James's-st., London.

MR. W. R. G. COSSHAM has been appointed sales manager of George E. Gray (Distributors) Ltd.

MR. R. DINGWALL (Chief Engineer) and MR. W. V. GOLDING (Raw Materials & Transport Superintendent) of Dorman Long (Steel) Ltd., have been appointed special directors of the company and also of the parent company, DORMAN, LONG & CO. LTD.

British Insulated Callender's Cables Ltd. announce that MR. J. W. HINKLEY has been appointed manager of London Branch.

MR. A. H. COLLINSON, formerly Ferodo manager, replacement sales department, Chapel-en-le-Frith, has been appointed the company's district manager in Leeds, following the retirement of MR. F. BOOTH.

# OVERSEAS BUILDING

*From Our Own Correspondents*

ADELAIDE.—A science block costing £29,000 is to be erected at Pulteney Grammar School, Adelaide. The building, which will have six laboratories, is to be completed by September.

AUSTRALIA (QUEENSLAND).—In Brisbane, Phillips Oil Products, the Australian subsidiary of the Phillips Petroleum Co., has signed a contract for the construction of an oil terminal valued at £A500,000. The terminal will be built at Pinkenba, near the mouth of the Brisbane River, by the Brisbane engineers Messrs. Evans, Deakin and Co. A director of the Phillips company, Mr. A. W. Smith, said the terminal would have a capacity of 6m. gallons.

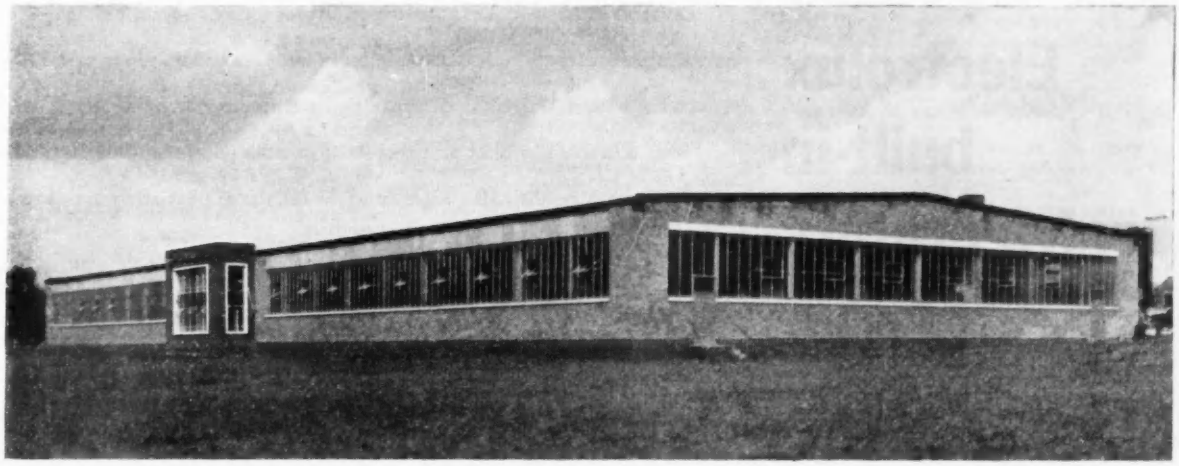
AUSTRALIA (QUEENSLAND).—The Brisbane firm of K. D. Morris & Sons Pty. Ltd. has obtained the contract for building a bridge connecting the mainland at Toorbul Point with Bribie Island. The bridge, which will be 2,742 ft. long and comprise 38 spans, will carry a 24 ft. roadway with a 4 ft. footway on one side. It will be the longest pre-stressed concrete bridge in Australia.

AUSTRALIA (SOUTH).—S. J. Weir Pty. Ltd. has been awarded the contract to erect a new 160 ft. high office building for the National Mutual Life Association of Australia Ltd. at the corner of King William- and Grenfell-streets, Adelaide. Work is scheduled for completion in August, 1962.

DOMINICAN REPUBLIC.—The signing of contracts between the Dominican Republic Government and a number of construction firms has been announced. The firm of A. Rodriguez Derrien is carrying out the largest of these—the extension of water mains in the capital for $350,000. Other works include the construction of harbour protection walls at Barahona and garages for the Republic's medical services.

GHANA. — Taylor Woodrow (Ghana) Ltd. has been awarded a contract to design and construct the buildings for a new textile printing works at Tema for the Ghana Industrial Development Corporation. Alexander Drew & Sons Ltd., of Burnley and Manchester, has designed the works layout and is responsible for the provision of the requisite machinery. They will supervise the management of the printing works and will act as consultants once the plant is in production. The co-ordination of the project is being undertaken by Dodwell & Company Ltd., of London. Work is due to begin shortly and construction will be completed in 18 months. The cost of the buildings, machinery, and associated works will be in the region of £1m. The main building will be a 750 ft. long single storey structure covering a total area of nearly 115,000 sq. ft. "L"-shaped, it will vary in width from 100 ft. to 280 ft. and will be in three main sections housing, bleaching, printing, and making-up departments, with the necessary ancillary processes. To meet the space and lighting requirements of

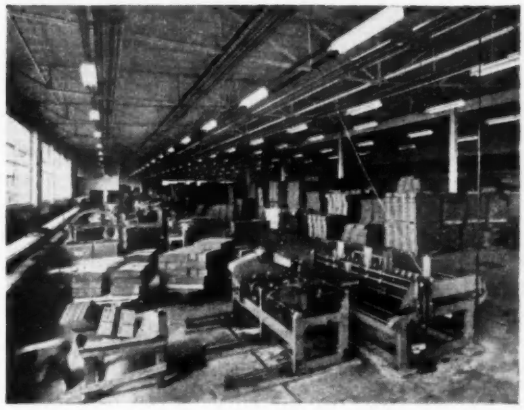
## MARRIOTTS OF THE MIDLANDS complete



*The Rigid Containers Ltd. factory* *Architects: Messrs. Cook, Culling & Illingworth (Meeting Lane, Kettering)*

# £70,000 factory in 26 weeks

*Interior views of the factory*



A date for the completion of this £70,000 factory for Rigid Containers Ltd. in Desborough was fixed right at the outset of the contract. This date was adhered to and, as usual, Robert Marriott Ltd. completed the job dead on time.

Here then is one more successful example of Marriott's high-speed building service for industry whereby contracts are carried out, and both a fixed price and a guaranteed schedule may be agreed before the contract starts.

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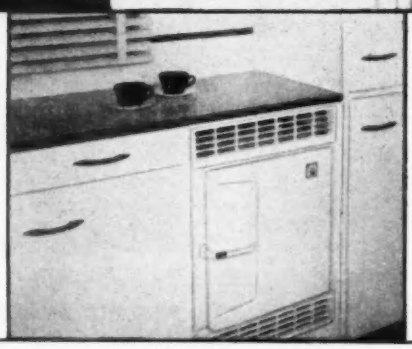

**Post to: Electrolux Ltd., Contracts Dept., 153/5 Regent Street, London, W.1.**

Please send me full details of model MB.16 built-in refrigerator.

NAME.....

B (5)

ADDRESS.....

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.....

the various processes to be carried out, both Arcon Sawtooth Roof and Arcon Industrial building structures will be used, to be supplied by Taylor Woodrow (Building Exports) Ltd., who are also supplying a number of the other buildings.

GHANA.—A £16m. contract for building the first stage of the Volta River dam and hydro-electric scheme has been awarded to the Impresit group of Italy—the same firm built the Kariba Dam in Rhodesia. The Volta Dam, expected to be built at an estimated cost of £60m., will provide power for an aluminium industry. The main dam will be 2,100 ft. long and 370 ft. high. Farther upstream there will be a smaller dam, 1,200 ft. long and 120 ft. high. The power house will be designed to take six generators each of 128,000 kw continuous output. It is hoped that work on the scheme will be started by the end of the year and that the first power will be utilised by September, 1965.

GREECE.—The Government's new public works programme for 1961, within the scope of a 5-year economic development programme, will cost an estimated £32m. It provides for civil aviation projects, road-building and maintenance of the highway network, port works, land development schemes, construction of public buildings and water supply works.

MALTA.—Work on the Paradise Bay £1m. luxury hotel project is scheduled to start this summer. The hotel will be 9 storeys high and built with a reinforced concrete frame with concrete and stone walls. Close to the hotel will be a village square surrounded on two sides by shops, a bistro, café, hairdresser and similar facilities.

SIERRA LEONE.—A small hydro-electric scheme is included in plans for the development of Freetown's water supplies through the construction of a reservoir in the Guma Valley.

TANGANYIKA.—Approval in principle has been accorded to the building of a 227-mile railway from Mikumi to Makumbako through the Kilombero Valley. The Tanganyika Government and East African Railways and Harbours are negotiating for an early start on the first 24 miles to the location of a new sugar factory.

UGANDA.—A preliminary design has been made by the Uganda Electricity Board for the construction of a second power station on the Nile, about 4½ miles downstream from Owen Falls. An application has been made to the International Bank for Reconstruction and Development for a loan to finance the project.

**British Firm in Nigeria**

TANGIBLE EVIDENCE of development and growing prosperity in Nigeria and overall potential for future growth was noted by Mr. E. R. Hole, managing director of Holland & Hannen and Cubitts Ltd., on his return from West Africa, where Cubitts and their associates recently formed a new company. In association with Howard Farrow Ltd. and Impresa Giachetti, Cubitts have formed Farrow Cubitts & Associates (Nigeria) Ltd. The new company is to be associated with Dys Trocca Valsesia & Co. Ltd., who have been established in Lagos since 1954.

**European Trading Opportunities**

IN ITS BROCHURE on trading opportunities, the Export Council for Europe states that Spain now offers scope for the supply of plant and equipment, particularly generating plant for hydro-electric power stations. There is also a need for earth-moving equipment. The Council points out that a similar demand will occur in Switzerland if and when the extensive new road programme is approved. It is interesting to note that over the next 15 years seven nuclear power stations—the first in Spain—are to be built, and the Spanish Government expects British firms to be well in the running when large orders are placed by 1963-64.

In Austria there is a need for plant for steel mills, generating plant, tractors, earth-moving and excavating equipment. It should be noted, however, that credit of from five to seven years is usually required and some competitors are offering even longer terms.

**Housing in the West Indies**

NUMBER SEVENTY-THREE in the Overseas Building Notes series, prepared by the tropical building section of the Building Research Station, deals with planning and housing in the West Indies. It contains a summary of the activities during 1958 to 59 and is based on a report prepared by Mr. J. C. Rose, formerly building adviser to the Federation of the West Indies for the Federal Ministry of Labour and Social Affairs. The Note also contains a section on air conditioning and mould growth, its cause and prevention.

## SCOTTISH BUILDER

**High Level Bridge at Erskine**

RENFREW COUNTY COUNCIL has approved proposals that a high level bridge be provided at Erskine Ferry to take the traffic now held up by lack of facilities. A census taken in August last showed that 239,000 vehicles were recorded at 20 points approaching the Ferry. The average number of vehicles using the ferry during a 16-hour day was 1,480—the potential for a new bridge was estimated at 4,280, at present, rising to 7,900 by 1965 and 16,300 by 1980. The case for a bridge has been very much strengthened by this census which shows the position to be even more serious than was expected.

**Overspill Housing**

AGREEMENTS FOR the provision of 200 houses at Inverkeithing and 150 houses at Dunbar for Glasgow overspill families have been approved by the corporation special committee on overspill. The houses are to be built over the next five years.

### New Buildings

GLASGOW.—The Corporation's Planning Com. has received an application for permission from Fibreglass Ltd. to erect a warehouse and factory at 815 Springburn-rd., Glasgow, with ground allocated for future development. Permission has been deferred pending a report on the planning aspects of the site. . . . Chaucer Estates Ltd. are continuing negotiations with the Planning Com. with regard to a plan for construction of a multi-storey block of shops and offices at 11-13 Queen-st., Glasgow. The Com. deferred a decision at its last meeting. . . . The EC has been granted approval by the Council for extra classrooms at Possilpark sec. sch. . . . The Corpn.'s Housing Dept. has been given planning permission for two four-storey blocks of 126 houses of various types at Adelphi-st. / Commercial-rd. / Ballater-st. / Waddell-st. redevelopment area. . . . Holland & Hannen and Cubitts (Scotland) Ltd. have begun work on the £1¼m. redevelopment project at Hutchesontown/Gorbals, covering 400 maisonettes in 20-storey residential blocks. There will be eight different types of houses in the scheme which involves the building of ten towers each 195 feet high. Sir Basil Spence is the architect.

MONTROSE BURGH.—TC have approved tenders amounting to over £57,000 for 32 houses in their next stage of the North-st./Orange-la. redevelopment scheme.

GLENROTHES.—The New Town Development Corpn. have accepted an offer by Weir Housing Corpn. Ltd., of Coatbridge, to build 124 houses and 66 lock-up garages at South Parks third housing development. It is hoped to start the scheme this month. When this scheme is commenced the total number of houses under construction will be 563. The Corpn. have now built 3,026 houses.

MUSSELBURGH.—The building firm of Crudens Ltd., Musselburgh, have been granted a warrant to erect nine two-storey houses and 24 flats in two three-storey blocks at the 'Common Myre,' Newhailes, Musselburgh, at a meeting of Musselburgh Dean of Guild Court recently. The estimated cost of this scheme was given as approximately £65,000.

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# THE BUILDER CONSTRUCTION NEWS

*Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.*

## CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

### BUILDING

**MAY 23**

(AR) PLYMOUTH CITY C.—Extension to existing Mayflower factory at Whitleigh for C. & J. Clark Ltd. City A. Dep. £3 3s. Tenders by June 9.

(AR) PLYMOUTH CITY C.—Erection of clinic and community mental health centre at 'Seven Trees,' Lipson. City C. Dep. £3 3s. Tenders by July 3.

**MAY 24**

(AR) DRAYTON RDC. — Erection of bungalows at Marchamley. Clerk to Council. Dep. £2 2s.

**MAY 25**

(AR) BIRMINGHAM CITY C.—Erection of 27 four-storey dwellings at Tessall-la./Egghill-la. estate, Northfield. City A. Dep. £2 2s. Tenders by June 30.

COUNTY DUBLIN VEC.—Building of technical sch. at Blanchardstown. Mr. P. Mulcahy, QS, 4 Northbrooke-rd., Leeson Park, Dublin. Dep. £10 10s.

(AR) LEEDS REGIONAL HOSPITAL BD. —Fixed price tenders for a new boiler house at The General Hospital, Batley. A to Bd. Dep. £2 2s.

**MAY 26**

(AR) BRISTOL CITY C.—Fixed price tenders for a detached house for Family Group Home, Romney-ave., Lockleaze, Bristol 7. City A.

**MAY 27**

(AR) EPPING & ONGAR RDC.—Modernisation of Nos. 1-20 Hoe-la., Abridge. E&S. Dep. £2 2s.

**MAY 29**

(AR) AYCLIFFE DEVELOPMENT CORPN. —Erection of supermarket. Gen. Mgr. Dep. £2 2s.

(A) LEATHERHEAD UDC.—Erection of sewage works manager's house and building containing office, laboratory and garage. E&S. Dep. £2 2s.

ULSTER MINISTRY OF COMMERCE.—Construction and completion of a factory at Saul-rd., Downpatrick, Co. Down. Room 30b, Chichester House, 64 Chichester-st., Belfast 1. Dep. £3.

**JUNE 1**

(A) GREAT YARMOUTH CBC.—Alterations, adaptations and repairs at College of Further Education. F. Jackson, architect, 22 Euston-rd., Gt. Yarmouth.

**JUNE 2**

(A) CHATHAM BC.—Building works in connection with the erection of a prefabricated junior library at New-rd. Boro' E&S. Dep. £2 2s.

(AR) EAST SUFFOLK STANDING JOINT COMMITTEE.—Erection of police house at Reydon (Southwold). County A. Dep. £2 2s.

(AR) SOUTHEND-ON-SEA CBC.—Erection of a 16-storey office block at Civic centre site. Boro' A. Dep. £2.

(A) WITHERNSEA UDC.—Fixed price tenders for 122 'Homeville' dwellings and 59 garages, etc., at Clovelly housing site. S. Dep. £2 2s.

**JUNE 5**

(A) ABERYSTWYTH BC.—Erection of two blocks of 16 garages at Fifth-ave., Penparcau. Boro' S & Water E. Dep. £1 1s.

(A) MORECAMBE & HEYSHAM BC.—Erection of public conveniences adjoining Heysham library, Heysham-rd. Boro' E&S. Dep. £2 2s.

**JUNE 7**

(AR) WANSTEAD & WOODFORD BC.—General building work. Boro' S.

**JUNE 8**

(A) REIGATE BC.—Fixed price tenders for 18 dwellings at Woodhatch farm estate. Boro' E&S. Dep. £2 2s.

**JUNE 9**

(A) REIGATE BC.—Fixed price tenders for 39 garages at Arbutus-rd., 11 garages at Rutland-close and 14 at Atherfield-rd. Boro' E&S. Dep. £2 2s.

WESTPORT (Eire).—Construction of a single-storey factory of 70,500 sq. ft. for Westport Textiles Ltd., Westport, Co. Mayo. P. Mulcahy, quantity surveyor, 4 Northbrook-rd., Leeson Park, Dublin. Dep. £52 10s.

**JUNE 12**

BUNCRANA (EIRE) UDC.—Erection of 12 houses at Ardavaran, Buncrana, Co. Donegal. Town Clerk, Buncrana, Co. Donegal. Dep. £10 10s.

(A) STAVELEY UDC.—Erection of 80 three-bed. houses at Middlecroft estate. E&S. Dep. £1 1s.

**JUNE 20**

(A) BOURNEMOUTH CBC.—Fixed price tenders for one block of six flats, etc., at Poole-la. Boro' A. Dep. £2 2s.

**JUNE 23**

(A) NEWTON-LE-WILLOWS UDC.—Fixed price tenders for 18 flats and eight houses at Bradleigh-rd. estate. E&S. Dep. £2 2s.

**JUNE 28**

(A) LINDSEY CC.—Erection of junior training centre and hostel at Wood-la., Louth. County A.

**JULY 17**

(A) WALLASEY CBC.—Erection of sec. tech. sch. for girls, Leasowe. Boro' A.

**NO DATE**

(A) ABERGAVENNY RDC.—Separate lump sum tenders for: (a) small water scheme, Llanwenarth Citra; (b) eight houses, Mardy bungalows site; (c) four houses with small sewage disposal works, Llanddewi Skirrid; (d) four houses with small sewage disposal works, Gt. Oak housing estate, Bryngwyn; (e) site works, roads and sewers, Lower House site, Govilon; (f) four houses, Llanvapley. A&S.

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### SERVICES, PAINTING, MATERIALS, ETC.

**MAY 29**

(A) RICKMANSWORTH UDC.—External painting and repairs to 127 Council houses at Mill End and Croxley Green housing estates. E&S. Dep. £2 2s.

**JUNE 5**

(A) CHESHUNT UDC.—Fixed price tenders for the external painting of 134 dwellings at Central-ave. housing estate. E&S. Dep. £2.

(A) DUNSTABLE BC.—Exterior redecorations to 344 dwellings in 3 contracts. Housing Estates Manager, Priory House, Dunstable. Dep. £1 1s. (each contract).

(A) LIVERPOOL CITY C.—Exterior painting and internal decoration of properties at Vyrnwy estate. Water E.

**JUNE 6**

(A) WEST HARTLEPOOL CBC.—Supply and delivery of sanitary fittings at high sch. for girls. L. Auton, architect, Regent-bldgs., York-rd., West Hartlepool.

**JUNE 9**

(A) DAGENHAM BC.—Roofing and windows for new transport depot workshops. Boro' E.

(A) WREXHAM BC.—Fixed price tenders for: (a) Fencing at Queen's Park and Huntroyde estates, and (b) steelwork for Road bridge, Felinpuleston. Boro' E&S. Dep. £1 1s. (each contract).

**JUNE 10**

(A) BOURNEMOUTH CBC.—Fixed price tenders for protective wire fencing to proposed St. Katherine's CoE prim. sch. site, Thornbury-rd. Boro' A. Dep. £1 1s.

**JUNE 12**

(A) WALLASEY CBC.—Internal painting of schools. Boro' A.

**JUNE 15**

(A) WOKING UDC.—Replacement of 76 fireplaces with new fireplaces and tiled surrounds at Gloster-rd., Old Woking. E&S. Dep. £2 2s.

### MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

**MAY 29**

ABERTILLERY UDC.—Surface dressing (hot tar) of approx. 87,000 sq. yd. of roads in the urban area. E&S.

**MAY 31**

SALE BC.—Surface dressing of carriageway and footways (85,000 sq. yd.) Boro' E. Dep. £2 2s.

**JUNE 5**

COVENTRY CORPN.—Resurfacing in hot rolled asphalt, etc., approx. 53,000 sq. yds. of road. City E. Dep. £5.

POOLE & EAST DORSET WATER BD.—Fixed price tenders for excavating and backfilling and laying approx. 4,400yd. 6in., 3,400yd. 4in. and 3,100yd. of 3in. spun-iron or asbestos pipes with valves, fittings and other appurtenant works. Sites are at Pimperne, nr. Blandford, and Moreton, nr. Wareham, Dorset. E&M.

**JUNE 20**

NIDDERDALE RDC.—Laying of approx. 7,900 lin. yd. of 9in., 6in. and 4in. sewers, with drains, together with rising mains and manholes, and the construction of two pumping stations, with the extensions to the existing works, at Rufforth, and all ancillary works. W. K. Rodwell, constg. engr., 40 North-st., Wetherby. Dep. £4 4s.

### GENERAL BUILDING WORK (LONDON)

BERMONDSEY.—Housing.—The Housing Com. of the LCC has approved a £824,715 scheme for the erection of 253 new dwellings (including 160 flats in two 21-storey blocks) for a six-acre site near the Surrey Docks. The scheme has been designed in the Housing Division of the Architect's Dept. of the Council.

CAMBERWELL.—Planning Application. —The LCC has received from Waring & Nicholson a town planning application for

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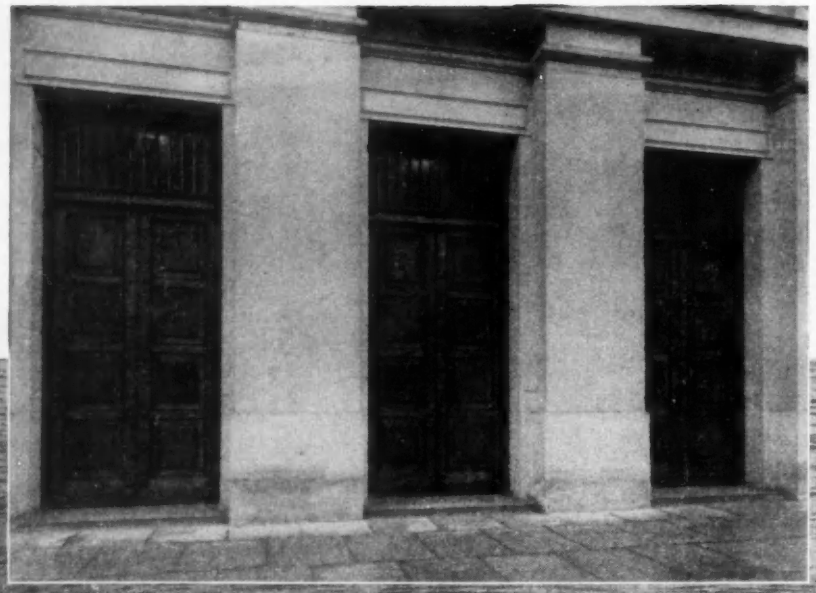

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the erection of 90 flats, shops and offices at the junction of Old Kent-rd./Commercial-way.

CHELSEA.—New Fire Station.—The LCC Fire Brigade Com. has approved plans for the erection of a new fire station in King's-rd. to replace Brompton fire station which was built in 1892 and is unsatisfactory for modern requirements. The new fire station will be constructed in conjunction with the new buildings for Chelsea college of science and technology and for a new school of art and will stand at the junction of King's-rd. and Dovehouse-st. The work, which will cost, with incidental expenses, about £118,700, will be carried out as a supplemental contract to the contract for the erection of the college. The Royal Fine Art Commission were consulted in view of the location and importance of the site and have approved the detailed scheme.

DEPTFORD. — Park Extension. — The LCC's Parks Com. has recommended acquisition, by compulsory purchase if necessary, of sites in Douglas-way and Mornington-rd., Deptford, at an estimated cost of £26,200, including site works and incidental expenses. The land, nearly an acre in total, will be developed as public open space and form part of the ultimate six-acre open space shown in the Development Plan for this area. About 180 persons will need to be rehoused.

FULHAM. — Planning Application. — A town planning application has been forwarded by R. J. Wood & Ptnrs. to the LCC for the erection of multi-storey maisonettes at Church Gate.

HACKNEY.—Planning Application.—BC has forwarded to LCC a town planning application for a revised scheme for housing at Homerton High-st.

HAMMERSMITH. — Planning Applications.—The following town planning applications have been received by the LCC: Flats and offices, including an 11-storey office block, at Uxbridge-rd./Lime-gr. (Collier & Madge); extension to LCS department store at King-st. (London Co-op. Society Ltd.).

HAMPSTEAD.—Planning Application.—The LCC has received from BC a town planning application for the erection of flats at Springfield-la./Springfield-walk.

HOLBORN. — Planning Application. — Kenneth Ann & Ptnrs. have forwarded to the LCC a town planning application for the erection of shops, theatre and housing at Winter Garden theatre, Drury-la.

ISLINGTON.—Planning Application.—The LCC has received from BC a town planning application for a revised scheme for a block of flats at Goldsmith-pl. site.

KENSINGTON.—Planning Application.—Shingler & Risdon, architects, have forwarded a town planning application to the LCC for the erection of shops, showrooms, hotel, offices, etc., at High-st./Russell-rd.

LAMBETH.—Planning Application.—The LCC has received a town planning application from the BC for the erection of 112 dwellings at Rumsey-rd. site.

PADDINGTON.—Planning Applications.—The LCC has received the following town planning applications: Block of flats at Gloucester-sq. (Fry, Drew & Ptnrs.); redevelopment of railway station as shops, flats and offices at Queensway/Moscow-rd. (Darling & Ptnrs.); new hotel at George-st./Forsett-st./Nutford-pl. (Newman Levinson & Ptnrs.); bank, shops, offices and residential accommodation at Oxford-st./Stratford-pl./Marylebone-pl. (R. Seifert & Ptnrs.).

ST. PANCRAS.—School Enlargement.—The LCC's Ed. & Sub-Committee propose to acquire a site of about two-thirds of an acre for the enlargement of the JFS sch., St. Pancras. The cost, about £38,000, will be recovered from the London Board of Jewish Education. About 140 persons will be displaced from the site, which comprises thirteen three-storey houses with semi-basements, all let in flats, and part of the gardens of four other houses. Powers of compulsory purchase may be necessary.

SOUTHWARK.—An Open Space.—A new public open space is to be provided as an extension to the Southwark Borough Council's Mayflower-gdns., Old Kent-rd. The extension is about the same size as, and will replace, Buckenham-sq., a protected square under the London Squares Preservation Act, which is needed for the extension of St. Saviour's and St. Olave's gram. sch.

WANDSWORTH.—Planning Applications.—The LCC has received the following town planning applications: BC housing—57 flats at Portinscale-rd. (R. S. Nickson); eight-storey office block at Upper Richmond-rd. (R. Lyon (Estates) Co. Ltd.).

WESTMINSTER.—Planning Applications.—The following town planning applications have been received by the LCC: Garages, flats and offices at Grosvenor Hill, Bourdon-pl. (Regent Lion Investments Ltd.); extension to Westminster Hospital at Page-st. (Adams Holden & Pearson); multi-storey garage at Rochester-row/Greencoat-pl. (City C); erection of office block at White's Club, St. James's-st. (A. Savill & Sons); extension to King's College at 160 Strand/Surrey-st. (Troup & Steele); shops, offices, etc., nr. Victoria Palace Theatre (Trehearne and Norman, Preston & Ptnrs.).

WESTMINSTER.—Intersection Scheme.—A revised scheme for the redevelopment of the Knightsbridge/Sloane-st./Brompton-rd. intersection is at present under consideration by the LCC, but its final form is not yet settled. In the meantime, to avoid delay, the Town Planning Com. are recommending the Council to submit to the Minister of Housing and Local Government proposals for alterations and additions to the Development Plan, defining the area as a comprehensive development area, and to make a compulsory purchase order, so far as necessary, for the land required to effect a satisfactory comprehensive development.

**(PROVINCIAL)**

ALDERLEY EDGE.—Following for UDC: Block of flats at Orme-st.; flat development at George-st., after demolition of existing property.

ALDERSHOT.—Lille Barracks are to be almost entirely rebuilt—completion by 1963; Hammersley Barracks are to be modernised—completion by 1963; 4 new Barracks are to be built on Stanhope Lines (West) site, which is to be demolished. Expenditure over next few years is £2½m. per year.

ALTRINCHAM.—RC Auth. propose erection of new prim. sch. at Park-la., Timperley.

AYLESBURY.—A building at Aylesbury, in which the first sweetened condensed milk to be made in England was produced, is to be pulled down to make way for a new £¼m. block. The Nestlé Company Ltd. announced on May 11 that the old block, built in 1870, will be replaced by a larger, higher building as part of their modernisation and improvement scheme in Aylesbury. Demolition is due to commence in June. The architects are Messrs. Beard, Bennett, Wilkins and Partners of Baker-st., London.

BARNSLEY.—Barnsley British Co-operative Society propose conversion of Trafalgar Hotel at New-st. into block of shops.

BELFAST.—Improvements Committee propose renovations to the Albert Bridge, including the renewal of the stringer beams. Est. £15,000.

BELPER.—Private developer proposes erection of 16 sd houses/16 detached houses/5 bungalows at Montpelier Farm site.

BIGGLESWADE.—RDC approved housing development at Station-rd., Blunham.

BLACKBURN.—BC, in conjunction with The Laing Development Company, propose a major Town Centre redevelopment plan covering a 10-year period. . . . J. S. Duxbury & Son Ltd. propose erection of a factory extension/two storey office block at Atlas Paper Works, River-st.

BOLDON (Co. Durham).—Gordon Durham & Co. Ltd., builders and contractors, Moor-la., Boldon, are to erect 54 houses and garages at Farm Hill estate, and plans have been approved. . . . Durham County EC are to extend Marsden county sch., to plans by the County A. South-st., Durham.

BOLTON.—Following for BC: Multi-storey car park at Howell Croft South; site being considered for erection of new Technical College at Derby-st.

BOOTLE.—BC propose reconstruction of Balliol-rd. baths.

BOURNEMOUTH.—Bilsmede Properties Ltd. propose erection of luxury flats on site of Old Well House, Sandbourne-rd. Architects: Alex F. French & Ptnrs., Pearl Assurance House, Queen-sq., Bristol.

BRACKNELL.—Berkshire Education Auth. propose laying foundations of South-East Berks College for Further Education on site, eastern end of High-st., during this summer and first instalment of college should be completed during 1963/4. Total est. £400,000 (est. stage 1: £179,000).

CAMBERLEY & FRIMLEY.—UDC has approved erection of 86 houses at The Warren estate.

CHADDERTON.—Northmix Ready Concrete Ltd. propose major extensions on land adjoining Chadderton Power Station.

CHEADLE & GATLEY.—Following for UDC: Two blocks of 14 flats for aged persons at Hulme Hall-rd., Cheadle Hulme; sale of land at Thorn-gr., offered for erection of new Sunday sch.

CHESHIRE.—The Minister of Housing and Local Government has upheld the appeal of J. J. Oakes & Sons Ltd. against the refusal of Hazel Grove and Bramhall Council to allow them to build 60 houses off Bramhall Moor-la., Hazel Grove (Cheshire).

DISLEY.—Albert Locke (1940) Ltd. propose 120 dwellings at Dane Bank Farm.

DORKING.—South Eastern Elec. Bd. propose erection of offices, stores, etc., at Ridgeway-rd.

DUNGANNON (Co. Tyrone).—Ministry have approved plans for 152 houses at Coalisland for RDC. Est. £250,000.

DURHAM.—CC is considering the erection of a £60,000 mental health centre at Aykley Heads, Durham City. The County A is G. W. Gelson, South-st., Durham.

DURHAM.—RDC Housing A is to prepare plans for the erection of 181 houses in seven areas during the current year. . . .

## Contracts Placed

*We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.*

YOUR
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Wilkinson Brothers (Builders) Ltd., 60 West-st., Gateshead, are to erect houses on 1½ acres of land at Kepier Farm, Gilesgate Moor.

EASTLEIGH.—Hampshire County Planning Com. has granted permission to Hill Construction Co. (Engineers) Ltd., to erect factory and offices at Woodside-rd., Eastleigh, subject to several siting conditions.

FAILSWORTH.—UDC propose erection of new library at Main-st.

GARSTANG.—Parochial Church Council of St. Thomas's propose erection of new school.

GATESHEAD.—Boro' Engineer has prepared final sketch plans for proposed extensions to Shipley Gallery, approx. cost about £40,000.

HAMPSHIRE.—County Planning Com. has approved following subject to MH&LG consent: Erection of 256 flats, 18 bungalows and two houses for Mr. H. G. Stevenson, at Milton Nurseries, Ashley-rd., New Milton; erection of 195 three-storey flats, 195 garages and five shops for H. H. Drew & Son Ltd., on 11 acres at Fernhill Manor estate, New Milton; and erection of bungalows, three-, six- and ten-storey flats at density of 21 units per acre for Messrs. C. H. Elsom & Ptnrs. on 17½ acres at junction of Becton/Barton Common-lanes, Barton. . . . CC proposes installation of swimming-pools at Basingstoke Girls' High and Burnham Copse junior schools, Bishopswood-rd., Tadley.

JARROW-ON-TYNE. — Supermarket is proposed in Bede Burn-rd. for the London & Newcastle Stores Ltd., St. James'-st., Newcastle-on-Tyne. Architects: G. H. Gray & Ptnr., Portland-ter., Newcastle-on-Tyne.

KEIGHLEY.—West Riding EC propose erection of Long Lee jun. mixed & infants' sch. at Long Lee-la./Holycroft sec. school at Keighley-rd.

KENDAL.—Manchester Regional Hospital Bd. has received approval in prinicple for erection of operating theatre suite/boiler house at Westmorland County Hospital.

LANCASTER.—Bailrigg site chosen by Executive Committee for erection of a North West University.

LEATHERHEAD.—Bishop and Sons Depositories Ltd. propose erection of large new warehouse and garage for removal vehicles at Fetcham-gr.

LEEDS.—TC propose erection of 40 dwellings/46 garages at Rodley area. . . . Merriman & Howard Ltd. propose erection of offices/warehouse/showrooms, at Armley-rd.

MANCHESTER.—A firm of building contractors is to build a multi-storey car park in Manchester. Lane, Fox & Co. Ltd. has been given planning permission by Manchester Corpn. to build a 12-storey building alongside London-rd. railway station. This building will accommodate 1,200 cars, a show-room, automatic wash down service station, offices and service flats. To provide for easy outlet of exhaust fumes, the car space above the fourth floor will have open sides.

MIDDLESBROUGH.—Plans are now being considered by the planning authorities for the redevelopment of land in Linthorpe-mews, Dundas-st., and Dundas-mews, for Metropolitan Railways Surplus Lands Co. The work includes the erection of two-storey shops, seven-storey office block above, and underground car park. Architects: Evans, Cartwright & Collatt, 4 Clarendon-st., Nottingham. . . . TC is to erect 50 houses and 54 lock-up garages in Dunstable-rd. on land at present used as allotments. Plans are by Boro' E (J. A. Kenyon).

NEWBURN (Northumberland). — UDC's scheme for the construction of a new golf clubhouse on the Westerhope Municipal Course is out to tender. The cost will be about £28,000. Plans by the Council's A. . . . Messrs. Quadrini, 277 Two Ball Lonnen, Newcastle-on-Tyne, are to erect an ice cream factory at Westerhope, Newburn. No contracts let. Architects are R. Turley & Associates, 46 Jesmond-rd., Newcastle-on-Tyne.

NEWBURY.—BC propose erection of 32 flats at Turnpike-rd. estate.

NEWCASTLE-ON-TYNE.—City C is being urged to go ahead with a £¾m. scheme for developing Woolsington Airport, nr. Newcastle, whether a Government grant is received or not. The project has been under consideration for several years. City E is D. T. Bradshaw. . . . Sketch plans have been approved for proposed development schemes at Dryburn Hospital and Darlington Memorial Hospital for Newcastle Hospital Bd. Bd.'s Chief A is P. H. Knighton.

NEW MILTON.—Hampshire County Planning Committee granted outline planning permission for 256 flats, 18 bungalows and two houses at Milton Nurseries, Ashley-rd.

NEWTOWNABBEY (Co. Antrim).—UDC propose 109 houses at Whitewell-rd.

NORTHUMBERLAND.—CC has approved a £100,000 scheme for additions to Kirkley Hall Farm Institute to provide accommodation for another 60 students. County A is C. C. Brown. . . . CC proposes old people's homes at Ashington and Berwick. The cost in each case will be in the neighbourhood of £80,000.

NORTHWICH.—UDC propose 10 houses/26 bungalows/11 garages, Old Vicarage site (revised scheme).

NORTHWOOD.—Hospital Bd. propose erection of radio biology laboratory at Mount Vernon Hospital. Architects: Waterhouse & Ripley, 5 Staple Inn-bldgs., London, WC1.

READING.—BC has approved a report which recommends: Northumberland-ave.—erection of 3-storey flats to be considered when Education Committee's requirements known; Corwen-rd.—erection of 4-storey maisonettes, 3 & 4-storey flats, houses and garages; Blagdon-rd.—erection of blocks of 4-storey maisonettes comprising 64 dwellings and 68 garages; Bulmershe estate—erection of 4-storey maisonettes, flats and garages on land in centre of estate, subject to Berks CC's approval; Somerstown—erection of 3 & 5 storey blocks of maisonettes and flats; Grove Hill—erection of 4-storey blocks of maisonettes, houses and garages; Burghfield-rd.—Boro' A & Planning Officer to consider and report on proposal to erect 8-storey blocks of flats and garages on Bath-rd. frontage and 4-storey maisonettes on Burghfield-rd. frontage.

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ROTHERHAM.—BC propose erection of new hostel at Potter Hill, Greasbro'. Est. £52,130.

RUNCORN.—Ches. CC propose erection of new jun. sch. adjoining Grange county sec. sch.

SALFORD.—TC propose major development scheme covering 72 acres at Broad-st. area. Est. £9m. . . . Chester's Brewery Co. propose erection of public house, 'Queens Arms,' at Regent-rd. . . . Mantell Brereton Ltd., Manchester, propose erection of warehouse/offices at Hope-st.

SALISBURY.—Wessex Regional Hospital Bd. propose erection of outpatients' department and upgrading children's ward at Odstock Hospital.

SHEFFIELD.—West Riding EC propose erection of new school at Doe Quarry-la., Dinnington. Est. £300,000.

SILSDEN.—Hanson & Bailey Ltd. propose residential development adjoining Jacques Grove.

SKELMERSDALE.—Lancs. EC propose erection of College of Further Education during 1965/67 in connection with New Town scheme.

STANDISH.—UDC propose residential development at Larkhill estate.

SWINDON.—BC approved library at Park neighbourhood centre; additional classrooms at Walcot West infants' sch., Walcot West jun. sch. and The Lawn jun. sch. . . . Erection of aged persons' dwellings and warden's accommodation at Sussex-sq., Walcot, for BC.

TARLETON.—West Lancs. RDC propose residential development at Tabby Nook-la.

TARVIN.—RDC propose erection of new county sec. sch. on 9½-acre site at Gateshead-rd.

TREFIW. (Caerns.).—Trefiw Chalybeate Wells Ltd. propose erection of filling station shop/parking facilities adjacent medicinal Wells.

WANTAGE.—Berks. CC propose erection of mod. sch. at Challow-rd.

WIGTON.—RDC has received Ministry sanction to build 80 houses this year.

WILMSLOW.—RC Auth. propose erection of new church & presbytery at Brooke Farm, Handforth.

WILTON (Wilts.).—BC is asking architects Messrs. Potter & Hare to prepare sketch scheme for elderly people's dwellings to be erected on Bulbridge estate.

WINCHESTER. — Adaptations to form adolescent psychiatric unit at Hursley-rd. Hospital are proposed.

YORK.—Another large development has been announced for the centre of York. It is a 7-storey office block to be built on a site in Piccadilly for Hammonds United Breweries Ltd. of Bradford by CAS (Industrial Developments) Ltd. Fifth and sixth floors will be devoted to offices and a top floor penthouse will be occupied by the brewery company while the remainder of the building will be let as offices. A showroom or supermarket on the ground floor will cover 2,575 sq. ft. When completed, the whole block will include approx. 25,000 sq. ft. of office accommodation and the showrooms will have an 85-ft. frontage on to Piccadilly.

## TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ALNWICK.—Erection of a new gram sch. for Convent of Mercy. Architects: Reavell & Cahill, Lloyds Bank-chbrs., Alnwick. (A) Stanley Miller Ltd., 17 North-st., Newcastle-on-Tyne.

AYLESBURY.—Erection of St. Peter's Church, Coventon-rd. estate for PC Council. (A) Frank Wood (Wendover) Ltd., Aylesbury-rd., Wendover.

BELFORD.—Erection of new offices for RDC. Architects: R. Turley & Associates,

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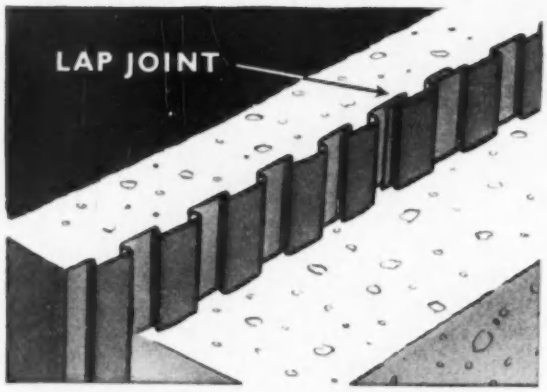


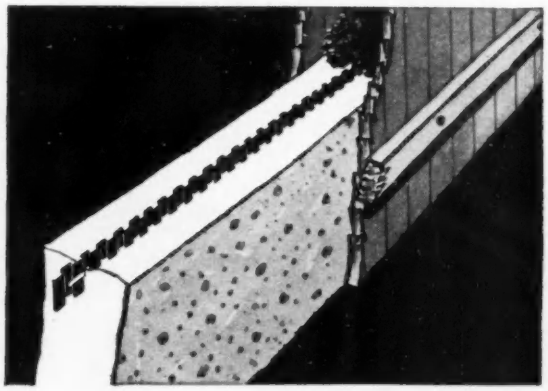

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46 Jesmond-rd., Newcastle-on-Tyne. (A) Graham & Son, Haslam-hse., Westcroft-rd., Newcastle-on-Tyne (work not yet started).

BELPER.—Bungalows/houses at Danesbyrise, Denby, for RDC. (A) J. L. Milward & Sons Ltd., £25,237.

BOURNEMOUTH.—Alterations and extensions to premises at 2-12 Commercial-rd. and Upper Terrace-rd., Bournemouth, for Bobby & Co. Ltd. Architects: Healing & Overbury, Rodney Lodge, Rodney-rd., Cheltenham. (A) James Drewitt & Son Ltd., West Howe, Bournemouth, £181,260. Addition of new wing to Talbot Heath sch., Bournemouth, for School Governors. Architects: Thomas Worthington & Sons, 178 Oxford-rd., Manchester 13. (A) James Drewitt & Son Ltd., West Howe, Bournemouth, £25,553 (negotiated contract).

BRIDGWATER. — Following for BC: Erection of dwellings and 23 garages, etc., at West-st. (GD) G. Wimpey & Co. Ltd., Bristol, £88,817. Erection of 30 houses and 46 garages at Sydenham estate. (GD) J. Standelwick & Sons Ltd., Taunton, Som., £61,284 (fixed price tender).

CAMBERWELL.—Erection of 117 dwellings and six shops, etc., at Mansion-st./Wesson-sq. for BC. Architect: F. O. Hayes (Boro' A). (A) Wilson Lovatt & Sons Ltd., £460,000.

CARLISLE.—Following for CBC: Construction of booster station and pumps for the River Eden Abstraction scheme—Harraby. (A) Mather & Platt Ltd., Manchester, £7,459. Stage three of extensions at Carlisle and county high sch. for girls. (A) G. Cowan & Son Ltd., £27,141.

CHESHIRE.—Construction of 15 miles of road for the Birmingham to Preston motorway for CC and MoT. (A) Tarmac Civil Engineering Ltd., £8,635,674.

CROYDON.—Construction of Children's home at Monks Hill estate for BC. (A) Hawker Smith Ltd., Erith, Kent. Extensions to old people's home at Warham-rd. for Warham Grange Residential Clubs Ltd. (A) R. D. Hope Ltd., 13-15 Selsdon-rd., South Croydon.

DERBY.—New engineering works/offices at Sinfin for Rolls Royce Ltd. (A) Trollope & Colls Ltd., London.

HALIFAX.—New Holt Trinity (Controlled) infants' sch. for BC. (A) Pickles Bros. (Builders) Ltd., £46,832.

IPSWICH.—New Shell-BP office block at Princes-st./Metz-st./New Cardinal-st./Sedan-st. Architects: Cotton, Ballard & Blow. (A) J. Gerrard & Sons Ltd., Swinton, £260,500.

LISKEARD.—Construction of 66 houses, 15 bungalows and 30 garages, etc., at Lakela. housing estate. Architect: G. R. Vaughan Ellis, National Provincial Bank-bldg., Trehawke-hse., Liskeard, Cornwall. Quantities by J. H. Snellgrove &, Ptnrs. Plymouth. (A) Selleck, Nicholls & Co., Ltd., East Hill, St. Austell, £157,042 (amended).

LONDON CC.—Provision of an adult education and youth centre at Alton estate, Wandsworth.

| | |
|---|---|
| Wates Ltd. | £56,072 |
| Sims & Russell Ltd. | 53,114 |
| A. T. Rowley (London) Ltd. | 49,879 |
| J. M. Hill & Sons Ltd. | 48,608 |
| R. H. Lynn & Co. Ltd. | 48,338 |
| (A) H. T. Oliver & Sons Ltd. | 47,302 |

Architect's comparable estimate is £46,597.

LONDON CC.—New school block at Ardale approved sch., Stifford, Grays, Essex.

| | |
|---|---|
| S. C. Grover Ltd. | £48,249 |
| William J. Jerram Ltd. | 45,362 |
| H. C. Horswill Ltd. | 44,992 |
| (A) F. R. Hipperson & Son Ltd. | 43,171 |

Architect's comparable estimate is £44,231.

LONDON CC.—Superstructure of south block extension to The County Hall.

| | |
|---|---|
| Leslie & Co. Ltd. | £409,662 |
| M. J. Gleeson (Contractors) Ltd. | 406,023 |
| Tersons Ltd. | 405,448 |
| Wates Ltd. | 402,796 |
| Trollope & Colls Ltd. | 399,400 |
| The Demolition & Construction Co. Ltd. | 398,891 |
| Rush & Tompkins Ltd. | 395,787 |
| Holland & Hannen and Cubitts (Gt. Britain) Ltd. | 389,932 |
| Rowley Bros. Ltd. | 385,779 |
| Griggs & Son Ltd. | 384,407 |
| (A) W. J. Simms, Sons & Cooke Ltd. | 379,056 |

Architect's comparable estimate is £383,292.

LONDON CC.—Construction in Tindal-st. area, Lambeth, of 25 balcony-access flats in one five-storey block, 20 maisonettes in one four-storey block and four two-storey terrace houses, together with 23 tenants' stores, six garages, ten parking spaces and a play space.

| | |
|---|---|
| Marshall Andrew & Co. Ltd. | £162,741 |
| Speirs Ltd. | 162,261 |
| Frank Bilton (London) Ltd. | 161,781 |
| M. J. Gleeson (Contractors) Ltd. | 160,939 |
| Griggs & Son Ltd. | 157,420 |
| Rowley Bros. Ltd. | 156,848 |
| Thomas McInerney & Sons Ltd. | 155,200 |
| G. Ward (Ealing) Ltd. | 154,110 |
| (A) Thomas & Edge Ltd. | 153,450 |

Architect's comparable estimate is £147,994.

LONDON CC.—Supply and installation of gas water-heaters in 456 dwellings at Broadway estate, Bethnal Green, Oban-hse., Poplar, Coventry Cross and Ranwell-cl. estates, Poplar and Haggerston estate, Shoreditch, Shoreditch and Finsbury.

| | |
|---|---|
| Ellis (Kensington) Ltd. | £22,449 |
| Stitson, White & Co. Ltd. | 22,402 |
| J. C. Spooner & Son Ltd. | 22,157 |
| W. G. Spittle Ltd. | 22,140 |
| North Thames Gas Board | 21,868 |
| F. J. Baynes & Co. Ltd. | 21,531 |
| (A) William Edgar & Son Ltd. | 21,053 |

Director of Housing's comparable estimate is £21,510.

LONDON CC.—Erection of new county sec. sch. at White Horse-la., Stepney.

| | |
|---|---|
| Thomas & Edge Ltd. | £416,473 |
| Galbraith Bros., Ltd. | 412,918 |
| The Demolition & Construction Co. Ltd. | 401,930 |
| Y. J. Lovell (London) Ltd. | 401,120 |
| Kirk & Kirk Ltd. | 400,215 |
| C. Miskin & Sons Ltd. | 397,136 |
| Griggs & Son Ltd. | 395,461 |
| Bernard Sunley & Sons Ltd. | 395,282 |
| A. T. Rowley (London) Ltd. | 394,326 |
| Rowley Bros. Ltd. | 392,540 |
| Marshall Andrew & Co. Ltd. | 385,562 |
| (A) J. M. Hill & Sons Ltd. | 383,233 |

Architect's comparable estimate is £390,648.

LONDON CC.—Erection of a day special sch. for delicate children at Rose Cottage, Woolwich.

| | |
|---|---|
| W. J. Jerram Ltd. | £103,943 |
| Croudace Ltd. | 101,860 |
| Poolman (Builders) Ltd. | 100,784 |
| Griggs & Son Ltd. | 100,540 |
| H. C. Horswill Ltd. | 99,350 |
| Henry Kent (Builders) Ltd. | 98,098 |
| (A) Thomas & Edge Ltd. | 97,497 |

Architect's comparable estimate is £90,295.

LONDON CC.—Improvements to Honour Oak county sec. sch., Camberwell.

| | |
|---|---|
| E. J. Lacey & Co. Ltd. | £64,621 |
| Truett & Steel Ltd. | 63,100 |
| S. G. & A. Agombar | 62,962 |
| H. M. Howard (Mitcham) Ltd. | 62,700 |
| Henry Kent (Builders) Ltd. | 62,279 |
| W. J. Marston & Son Ltd. | 60,926 |
| C. P. Roberts & Co. Ltd. | 60,682 |
| (A) Thomas & Edge Ltd. | 60,066 |

Architect's comparable estimate is £51,279.

LONDON CC.—Rebuilding of county prim. sch. at Trundley's-rd., Deptford.

| | |
|---|---|
| Marshall Andrew & Co. Ltd. | £86,616 |
| R. Durtnell & Sons Ltd. | 85,601 |
| Henry Kent (Builders) Ltd. | 83,609 |
| Thomas & Edge Ltd. | 81,900 |
| W. J. Marston & Son Ltd. | 72,359 |
| J. Jarvis & Sons Ltd. | 70,450 |
| H. T. Oliver & Sons Ltd. | 70,105 |
| (A) Stewart & Ptnrs., Ltd. | 68,300 |

Architect's comparable estimate is £66,124.

LONDON CC.—Improvements to Forest Hill sch., Lewisham.

| | |
|---|---|
| R. H. Lynn & Co. Ltd. | £25,722 |
| Marshall Andrew & Co. Ltd. | 24,872 |
| W. R. Oldham Ltd. | 24,250 |
| Hotson Bros. Ltd. | 22,428 |
| F. H. Beeching & Son (Keston) Ltd. | 21,606 |
| (A) William H. Figgis | 20,659 |

Comparable estimate of the appointed architects, Messrs. Carden, Godfrey & Partner, is £20,875.

LONDON CC.—Extension and adaptations to Catford county sec. sch. for boys, Lewisham South.

| | |
|---|---|
| Thomas & Edge Ltd. | £402,374 |
| Kirk & Kirk Ltd. | 399,775 |
| Rush & Tompkins Ltd. | 386,583 |
| A. T. Rowley (London) Ltd. | 375,102 |
| Tersons Ltd. | 374,718 |
| W. J. Simms, Sons & Cooke Ltd. | 374,262 |
| Rowley Bros. Ltd. | 373,691 |
| Galbraith Bros. Ltd. | 372,206 |
| Marshall Andrew & Co. Ltd. | 369,509 |
| Prestige & Co. Ltd. | 366,907 |
| (A) Griggs & Son Ltd. | 356,834 |

Comparable estimate of the appointed architects, Bronek Katz and R. Vaughan, is £376,475.

LONDON CC.—Major repairs to structure to Tower Bridge county sec. sch., Bermondsey.

| | |
|---|---|
| Soar & Co. Ltd. | £31,000 |
| Collis & Co. Ltd. | 30,408 |
| Walter Gladding & Co. Ltd. | 30,382 |
| Henry Kent (Builders) Ltd. | 28,746 |
| (A) Hotson Bros. Ltd. | 25,700 |

(GD) LONDON (Admiralty). — Contracts over £4,000 in value: *Lancashire:* Painting masts and towers; Baxter Bros. (1920) Ltd., Newcastle-upon-Tyne. *Hampshire:* Construction of concrete foundations; John Hunt Ltd., Gosport. Concrete raft and platform; Jno. Croad Ltd., Portsmouth.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended May 12: *Building work:* Saxa Vord, Shetland Isles; R. Pert & Sons Ltd., Montrose, Angus. Stafford; Kirkland (Derby) Ltd., Derby. Garth's Ness, Shetland Isles; Wm. Tawse Ltd., Angusfield, Aberdeen. Wittering, Northants.; Messrs. Robert Marriott Ltd., Rushden, Northants. *Artificers' work:* Greenham Common, Berks.; F. R. Hipperson & Son Ltd., Dagenham, Essex. Northolt (Middlesex), etc.; Haymills (Contractors) Ltd., Hanger Green, London, W5. Wyton (Hunts.), etc.; A. J. G. Potter & Sons Ltd., Wellingborough, Northants. *Painting work:* Hornchurch, Essex; P. J. Hartel (London) Ltd., Ealing, London, W5. *MPHW heating installation:* Glamorgan; J. G. Proger & Sons Ltd., Cardiff. *Conversion to oil firing of existing heating installation:* Hullavington, Wilts.; Baker Perkins Ltd., Peterborough, Northants.

(GD) LONDON (MoW).—Contracts placed for week ended May 6: *Hampshire:* Extension to form sorting office at Post Office, West-st., Alresford; A. J. Dunning & Sons Ltd., Weyhill, Andover. *London:* Attendance on Post Office engineers at Faraday-bldg., Queen Victoria-st., EC4; Clemens Bros. Ltd., Derby-rd., E7. Decoration work at Clelandhse., Page-st., SW1; Spraycraft Co. Ltd., 101-102 Palace-rd., Bromley, Kent. *Pembrokeshire:* Erection of Post Office and sorting office, Pembroke Dock; Geo. Argent & Co. Ltd., South-rd., Pembroke.

(GD) LONDON (War Dept.).—Contracts placed for week ended May 5: *Durham:* Miscellaneous; John Roxby Surtees Ltd., Blackhill. *Hampshire:* Building at Worthy Down; Charles R. Price, London, NW9. Building at Aldershot; R. C. Redford & Sons Ltd., Farnham. *London:* Building at Woolwich; Peter Lind & Co. Ltd., London, SW. *Pembroke:* Roof repair at Pembroke Dock; George Argent & Co. Ltd., Pembroke. *Surrey:* Miscellaneous at Chertsey; Sherfields (Farnham) Ltd., Farnham.

LUTON.—New central stores and depot at the junction of Portland-rd. and Kingsway for BC. (A) H. C. Janes Ltd., Luton.

MANCHESTER.—Following for TC: Site investigation survey in connection with multi-storey development at Sale, Ches./Heywood, Lancs., overspill sites/Fairbourne-rd., Levenshulme. (A) Matthews & Mumby Ltd., Denton. New hostel at Elizabeth Gaskel College. (A) Direct labour. Alterations/adaptations at Police headquarters, Bootle-st. (A) Direct labour (revised tender). Improvements to Old Hall-dr. infants' sch. (A) F. Bakewell, Manchester. New infants' wing to Broad Oak prim. sch.. (A) G. & J. Seddon Ltd., Little Hulton, Walkden, Manchester.

MIDDLESBROUGH. — Erection of staff canteen at Middlesbrough General Hospital for Newcastle-on-Tyne Hospital Bd., Benfield-rd., Newcastle-on-Tyne. Bd.'s Chief A is P. H. Knighton. (A) Hudson Bros., Fidler-st., Middlesbrough, £22,942 (biulders), and J. T. Leake & Co. Ltd., Black Hanover-sq., Newcastle-on-Tyne, £1,716 (mechanical engineering services).

MIDDLETON.—New PH at Alkrington estate for J. W. Lees & Co. (Brewers) Ltd.

(A) Parker & Calvert Ltd., Heywood, Lancs.

NEWCASTLE-ON-TYNE. — Erection of science and mathematics block at Eldon-pl. for King's College. Architects: Richard Sheppard, Robson & Ptnrs., 5 Southampton-pl., London, WC1. (A) Stanley Miller Ltd., 17 North-st., Newcastle-on-Tyne. Erection of warehouse in Fisher-st. for Tudor Food Products Ltd., Peterlee. Architects: Beard, Bennett, Wilkin & Ptnrs., 101 Baker-st., London, W1. (A) Bovis Ltd., London (work in hand). Erection of supermarket in Newgate-st. for Moores Stores Ltd. (A) Cussins Ltd., The Drive, Gosforth, Newcastle-on-Tyne.

NOTTINGHAM.—New offices/warehouse at Queens-dr. for Walsall Conduits Ltd. (A) F. Perks & Son Ltd., Long Eaton.

PAISLEY (Scotland).—New factory for Pressed Steel Co. Ltd., Linwood. Architects: H. W. Weedon & Ptnrs. (A) Holland & Hannen and Cubitts (Scotland) Ltd., £1¼m.

PEMBROKESHIRE.—Erection of new home for aged persons at Narberth for CC. County A is W. Barrett. Quantities by C. R. Wheeler & Ptnrs. (A) Wm. Eaves & Co., Haverfordwest, £89,888.

PONTYPRIDD.—Extensions to Glamorgan College of Advanced Technology at Treforest, for Glam. CC. Architect: E. A. E. Evans (County A). (A) J. Gerrard & Sons Ltd., £68,000.

PURFLEET.—New buildings, etc. on three-acre site for Thames Board Mills Ltd. Constg. engrs.: F. S. Snow & Ptnrs. (A) Holloway Brothers (London) Ltd., £1,450,000.

ROTHERHAM.—Development of Kimberworth estate for CBC. (A) Frank Haslam, Milan & Co. Ltd., £294,555.

ROTHERHAM.—Construction of 1¼ miles of 24-ft. single carriageway at Fenton-rd. (stage II) for BC. (A) Tarmac Civil Engineering Ltd., £108,000.

SALFORD. — Factory extension for Colgate-Palmolive Ltd. (A) A. Monk & Co. Ltd., £675,000.

SLOUGH.—Erection of 238 houses at Parlaunt Park for BC. (A) Gable Construction Co. Ltd., 54 Garratt-la., London, SW18, £498,413.

STAINES.—Erection of eight three-storey blocks of flats at Laleham-rd. for E. Alex Colman Group of Companies. (A) Tersons Ltd., London.

STRETFORD.—Erection of 11 pairs of semi-detached houses at Nansen-cl. site, Gorse Hill, for BC. (A) L. & M. Karudansky, St. Brannocks-ave., Chorlton-cum-Hardy, Manchester 2.

STRETFORD.—Firm price tenders for: (a) 12 two-storey flats at Barton-rd. housing site; (b) 42 aged persons' dwellings and bungalows with warden's quarters at Lostock Court site, Barton-rd.; (c) six garages at Thomas-st. site, all for BC. (A) Rowlinson Constructions Ltd., South Reddish, Stockport (a) and (b); and Giblin Bros., Longsight, Manchester 12 (c), respectively.

SWANSEA.—Erection of warehouse at New Orchard-st. for Messrs. S. J. Talbot Ltd. Architects: Henry A. Ellis & Son, chartered architects, Mardy-chbrs., 6 Wind-st., Swansea. B. W. Ellis, chartered quantity surveyor, 90 Mansel-st., Swansea. (A) Messrs. E. Turner & Sons Ltd., 31 Walter-rd., Swansea.

SWINTON & PENDLEBURY.—Erection of 28 houses, etc., at Ringlow Park-rd., Swinton, Lancs., for BC. Boro' E&S is Charles R. Smith. Quantities by E. R. Babbs & Sons, Manchester. (A) G. & J. Seddon Ltd., Little Hulton, Walkden, nr. Manchester, £61,033.

TYRONE.—Erection of new Council offices and board room for CC. (A) Farrans Ltd., Dunmurry, Belfast, £163,862.

WARLINGHAM.—New factory at Whyteleafe for Givauden & Co. Ltd. (A) Marshall-Andrew Ltd., London.

WATFORD.—Erection of 52 houses and 35 garages at Meriden estate for BC. (A) Woodside Builders Ltd., 92 Cecil-st., Watford, £101,130.

WEST HAM.—Erection of 29 houses, 234 flats, 100 maisonettes, seven shops, 12 workshops, four temporary shops and 132 garages, at Portway/Leabon-st. area for BC.

| | |
|---|---|
| M. J. Gleeson (Contractors) Ltd. | £1,028,772 |
| Tersons Ltd. | 1,018,497 |
| Leslie & Co. | 1,014,500 |
| Rowley Bros. | 1,012,420 |
| Griggs & Son Ltd. | 979,278 |
| W. J. Simms, Sons & Cooke Ltd. | 976,536 |
| (GD) W. J. Jerram Ltd. | 974,778 |

WEST HAM.—Erection of 11 houses, 15 flats and 19 garages at Balaam-st. for BC.

| | |
|---|---|
| Tersons Ltd. | £69,432 |
| Rowley Bros. | 68,900 |
| Griggs & Son Ltd. | 67,268 |
| S. Newlyn | 65,691 |
| H. C. Horswell Ltd. | 64,839 |
| (GD) W. J. Jerram Ltd. | 62,846 |

WESTMINSTER.—Erection of four and five-storey block of flats and shops and a five-storey block of offices at Vauxhall Bridge-rd., SW1, for Halberd Investments Ltd. Architects: Clive Pascall, P. Watson & Associates. (A) Griggs & Son Ltd., £100,000.

WHITCHURCH.—New fire station for Salop CC. (A) G. A. Poole Ltd., Newcastle, Staffs.

WHITEHAVEN.—Construction of stage 3 of West Cumberland Hospital for Newcastle Regional Hospital Bd. Architects: C. B. Pearson, Son & Ptnrs. (A) John Laing Construction Ltd., £2m.

WIDNES.—Phase II of county sec. mod. sch., Bankfield, for BC. (A) Direct labour, £93,492.


FEDERATION OF MASTER BUILDERS

**UNITE FOR STRENGTH**

**MEMBERSHIP ALL-TIME RECORD**

The following certificate of membership has been received.

**FEDERATION OF MASTER BUILDERS LTD.**

We have examined the records of the Federation of Master Builders Ltd., and we hereby certify that the total membership of the Federation at 31st December, 1960, including approved applications, but excluding any members whose subscriptions are unpaid for 1960, was

**12,148**

**Barsham, Nixon & Hamilton,**
*Chartered Accountants.*

April 13th, 1961

**1, Lincoln's Inn Fields, London, W.C.2**

The effective membership at the 31st December, 1960, was

**12,856**

**33, John Street, Holborn, London, W.C.1**
Tel: CHA 7583



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THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD

NO MORE UGLY NAIL HEADS OR HAMMER MARKS

*Inserted with a tool holding a pack of 50 nails at one loading.*

Also the maker of the JIFFY wallboard bevelling and grooving tools.

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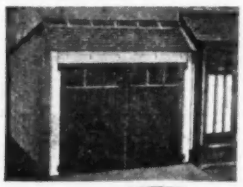
*London Office:* 11, LUDGATE HILL, E.C.4. Phone: City 7238.





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# OFFICIAL ANNOUNCEMENTS

Rate : 30/- per inch, minimum ½-inch ; each additional line 2/- **Competitions Contracts Public Appointments**

**ATTENTION ADVERTISERS**

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

## COMPETITION

### HOUSE DESIGN COMPETITION

An Open Competition for four types of house design is being sponsored by the Gas Council. Conditions are now available, and designs must be in by 31st AUGUST, 1961.

Designers are called on for the minimum amount of work in presenting their ideas, so that effort may be concentrated on solving design problems in new ways, offering exciting new possibilities for living in modern society.

Assessor : Mr. George Grenfell Baines, O.B.E., F.R.I.B.A., M.T.P.I.

The competition is open to Registered Architects, and Students R.I.B.A. if in association with a Registered Architect.

Applications for Conditions to :
Secretary,
HOUSE DESIGN COMPETITION,
The Gas Council, 1 Grosvenor-place,
London, S.W.1.

## CONTRACTS

### WITHERNSEA
URBAN DISTRICT COUNCIL.

CLOVELLY HOUSING SITE.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF NO. 122 HOMEVILLE HOUSES AND BUNGALOWS, NO. 59 GARAGES, ROAD AND SEWERS. Tender documents may be obtained from the Surveyor, Municipal Buildings, 243 Queen-street, Withernsea, on receipt of a deposit of £2 2s., which will be refunded on receipt of a bona fide tendr not subsequently withdrawn.

Tenders, in the envelope provided, must reach the undersigned not later than noon on FRIDAY, 2nd JUNE, 1961. The Council does not bind itself to accept the lowest or any tender.

(Signed) S. B. CLARKE,
Clerk of the Council.

Municipal Buildings,
Queen-street,
Withernsea.
9th May, 1961.

### GREAT YARMOUTH
COUNTY BOROUGH.

EDUCATION COMMITTEE.

TENDERS are invited for General Builders Work in connection with the proposed ALTERATIONS, ADAPTATIONS AND REPAIRS at the College of Further Education, comprising drainage, paved areas, new scullery and general building work.

Specifications, Forms of Tender and all particulars may be obtained from F. Jackson, F.R.I.B.A., Schools Architect, 22 Euston-road, Great Yarmouth, from 18th MAY, 1961, upon deposit of £2 2s., returnable on receipt of a bona fide tender. Cheques should be made payable to the Great Yarmouth Corporation.

Tenders must be returned in the envelope provided to the Town Clerk, Town Hall, Great Yarmouth, not later than 9 a.m. on THURSDAY, 1st JUNE, 1961.

Town Clerk.

Town Hall,
Great Yarmouth,
Norfolk.

### WALLASEY
COUNTY BOROUGH.

INTERNAL PAINTING OF SCHOOLS.

TENDERS, to reach the undersigned by 12th JUNE, 1961, are invited for the INTERNAL PAINTING OF VARIOUS SCHOOLS in the Borough. Specifications and Forms of Tender obtainable from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

### PLYMOUTH CITY.

TENDERS are invited from Building Contractors for :—

THE EXTENSION TO THE EXISTING MAYFLOWER FACTORY at Whitleigh, Plymouth, for Messrs C. & J. Clark Ltd.

Applications, accompanied by a deposit of Three Guineas made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 23rd MAY, 1961, will be considered.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

Documents will be issued to Contractors on the 24th May, 1961, returnable on the 9th JUNE, 1961.

### REIGATE
BOROUGH.

18 DWELLINGS,
WOODHATCH FARM ESTATES,
REIGATE.

FIXED-PRICE TENDERS are invited for 15 THREE-BEDROOM HOUSES, 3 ONE - STOREY OLD PEOPLE'S ANNEXES AND 15 GARAGES, based upon Bills of Quantities for substructure and site works, subject to remeasurement as work proceeds, and upon lump sum for superstructure of the dwellings based upon Specification and Detailed Plans.

Form of Tender, Specification, Bills of Quantities and Plans obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £2 2s. refunded upon the submission of a bona fide Tender or the return of all Plans and documents.

Sealed Tenders, in the envelope provided and endorsed "Tender for 18 Dwellings, Woodhatch Farm Estate, Reigate," must be returned to the undersigned not later than noon on THURSDAY, 8th JUNE, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
May, 1961.

### STAVELEY
URBAN DISTRICT COUNCIL.

TENDER FOR 80 THREE-BEDROOM HOUSES.

The above Council invite TENDERS for the CONSTRUCTION OF 80 THREE-BEDROOM TYPE BRICK HOUSES ON THEIR MIDDLECROFT ESTATE, STAVELEY.

Forms of Tender and other particulars may be obtained from the Engineer and Surveyor, Council Offices, Lowgates, Staveley, Near Chesterfield, on payment of a deposit of £1 1s. 0d., which will be returnable if a bona fide Tender is received not later than MONDAY, the 12th JUNE and not subsequently withdrawn.

The Council do not bind themselves to accept the lowest or any Tender.

HAMILTON H. STANLEY,
Clerk of the Council.

Council Offices,
Lowgates,
Staveley,
Nr. Chesterfield.
12th May, 1961.

### SOUTHEND-ON-SEA
COUNTY BOROUGH.

CIVIC CENTRE—16-STOREY OFFICE BLOCK.
CONTRACT NO. 3.
TO BUILDING CONTRACTORS.
TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than FRIDAY, 2nd JUNE, 1961, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The reinforced concrete frame and external cladding contracts to this building of about 140,000 square feet are nearing conclusion and Contract No. 3 comprises the COMPLETION OF THE BUILDING AND INCLUDES ALL INTERNAL FINISHINGS TO FLOORS, WALLS AND CEILINGS, DEMOUNTABLE PARTITIONS, ENGINEERING AND PLUMBING SERVICES, LIFTS, EXTERNAL CLADDING OF MARBLE AND SLATE AND WINDOWS TO FLOORS 2 AND 3, and works incidental thereto.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available mid June, 1961. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

### WALLASEY
COUNTY BOROUGH.

SECONDARY TECHNICAL SCHOOL FOR GIRLS, LEASOWE.

TENDERS are invited for the ERECTION of the above-mentioned school having a floor area of 42,000 sq. ft. in one-, two- and three-storeyed reinforced concrete framed buildings, together with all external services including the layout of playing fields and the erection of a Caretaker's bungalow. The Bills of Quantities will be available by mid-JUNE, and tenders will be required to be submitted to the Town Clerk not later than MONDAY, 17th JULY. Contractors wishing to tender should make application to the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

### LINDSEY
COUNTY COUNCIL.

TENDERS are invited for the ERECTION OF A JUNIOR TRAINING CENTRE AND HOSTEL, Wood-lane, Louth. The Building is of traditional construction with approximate floor area of 11,000 sq. ft. Bills of Quantities may be obtained from A. Ronald Clark, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, who must receive Tenders not later than 10 a.m. 28th JUNE, 1961.

### DRAYTON
RURAL DISTRICT COUNCIL.

ERECTION OF BUNGALOWS AT MARCHAMLEY.

The Council desires to obtain TENDERS FOR THE ERECTION OF FOUR ONE-BEDROOM BUNGALOWS WITH THE NECESSARY SITE WORKS, at Marchamley, in accordance with specification and Bills of Quantities prepared by the Council's Architects and Quantity Surveyors.

Contractors wishing to Tender are asked to submit their names and addresses together with a deposit of £2 2s. 0d., to the undersigned not later than the 24th instant. All necessary Tender documents will then be sent to them. The deposit will be returned upon receipt of a bona fide Tender.

THOS. DUDLEY,
Clerk of the Council.

Council Offices,
Smithfield-road,
Market Drayton,
Shropshire.
10th May, 1961.

### PLYMOUTH CITY.

TENDERS are invited from Building Contractors for :—

The ERECTION OF A CENTRAL CLINIC AND COMMUNITY MENTAL HEALTH CENTRE AT "SEVEN TREES," LIPSON, PLYMOUTH.

Applications, accompanied by a deposit of Three Guineas made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom bills of quantities and forms of Tender may be obtained.

No application received after the 23rd MAY, 1961, will be considered.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

It is proposed that Tender documents will be sent out on the 9th June, returnable on the 3rd July.

### MORECAMBE AND HEYSHAM
BOROUGH.

PROPOSED PUBLIC CONVENIENCES ADJOINING HEYSHAM LIBRARY, HEYSHAM-ROAD.

TENDERS are invited for the ERECTION OF PUBLIC CONVENIENCES ADJOINING HEYSHAM LIBRARY, HEYSHAM-ROAD.

General Conditions, Specifications and Bills of Quantities and Form of Tender may be obtained from and plans inspected at the office of the Borough Engineer and Surveyor upon payment of a deposit of £2 0s. 0d. which will be returned on receipt of a bona fide Tender not subsequently withdrawn.

Tenders endorsed "Public Conveniences—Heysham-road" must reach me by 9 a.m. MONDAY, 5th JUNE, 1961.

C. E. BOTTOMLEY,
Town Clerk.

8th May, 1961.

### BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.

Children's Committee invite TENDERS for ERECTION OF DETACHED HOUSE in traditional construction for Family Group Home, Romney-avenue, Lockleaze, Bristol, 7. Contractors willing to submit Fixed Price Tender, apply to City Architect, Council House, Bristol, 1, by 26th MAY.

12th May, 1961.

### AYCLIFFE DEVELOPMENT CORPORATION

### CONTRACT 213—ERECTION OF SUPERMARKET

Applications are invited to tender for the above contract which consists of the erection of a two-storey supermarket approximately 103 feet long, 60 feet wide and 30 feet high. The structure comprises brick external walls, specialist precast concrete first floor and supporting columns, and specialist timber roof.

Applications for tender documents should reach the undersigned by 29th May and be accompanied by a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide tender. Three weeks will be allowed for the preparation and submission of tenders.

The Corporation does not bind itself to accept the lowest or any tender.

**A. V. WILLIAMS,**
General Manager.

**Churchill House,**
**Newton Aycliffe,**
**Nr. Darlington.**

### RICKMANSWORTH
URBAN DISTRICT COUNCIL.

COUNCIL HOUSES—EXTERNAL PAINTING.

TENDERS are invited from experienced firms for the EXTERNAL PAINTING AND INCIDENTAL REPAIRS TO 127 COUNCIL HOUSES ON THE MILL END AND CROXLEY GREEN HOUSING ESTATES, divided into three contracts of 36, 37 and 54 houses respectively. Tenders may be submitted for one or all contracts but the completion dates will be the same. Specifications and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Rickmansworth, on payment of £2 2s. 0d., returnable on receipt of a bona fide Tender. Tenders should be deposited in plain sealed envelopes endorsed "Painting Contracts—Housing" with the undersigned not later than NOON, MONDAY, 29th MAY, 1961. The Council does not bind itself to accept the lowest or any Tender.

C. G. RANSOME WILLIAMS,
Clerk of the Council.

Council Offices,
Rickmansworth.
9th May, 1961.

### REIGATE
BOROUGH.

64 BRICK-BUILT GARAGES IN REIGATE AND REDHILL.

FIXED PRICE TENDERS are invited for 39 GARAGES at Arbutus-road, 11 GARAGES at Rutland-close and 14 GARAGES at Atherfield-road, together with DRAINAGE AND SITE WORKS, based upon Specification and Detailed Plans.

Form of Tender, Specification and Plans obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £2 2s. refunded upon the submission of a bona fide Tender or the return of all Plans and documents.

Sealed Tenders, in the envelope provided and endorsed "Tender for 64 Garages in Reigate and Redhill," must be returned to the undersigned not later than NOON on FRIDAY, 9th JUNE, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
May, 1961.

### BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited, on a "Fixed Price" basis, for Housing Contract K.6A, ERECTION OF ONE BLOCK OF SIX FLATS and ancillary works at Poole-lane, Bournemouth.

Bills of Quantities and Form of Tender are available from, and conditions of Contract and Drawings may be inspected at, the Borough Architect's Office (Room 106), Town Hall, Bournemouth, on payment of two guineas deposit refundable on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m., TUESDAY, 20th JUNE, 1961.

A. LINDSAY CLEGG,
Town Clerk.

## LEATHERHEAD
URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION OF SEWAGE WORKS MANAGER'S HOUSE AND BUILDING CONTAINING OFFICE, LABORATORY AND GARAGE.

Bills of Quantities and Tender Documents from Engineer and Surveyor, Red House, Leatherhead, on payment of £2 2s. deposit, returnable on receipt of bona fide Tender. Drawings and specification may be inspected at Red House.

Tenders and completed Bills of Quantities to be returned by NOON MONDAY, 29th MAY, 1961.

J. EDE,
Clerk of the Council.

Council Offices,
Leatherhead.

## NEWTON-LE-WILLOWS
URBAN DISTRICT COUNCIL.

FIXED-PRICE TENDERS are invited for the ERECTION OF:
3 BLOCKS OF TWO-STOREY FLATS (18 DWELLINGS) and 8 THREE-BEDROOM HOUSES at Bradleigh-road Estate.

Specifications and Bills of Quantities may be obtained from the Engineer and Surveyor, Market Chambers, Market-street, Newton-le-Willows, upon payment of a deposit of £2 2s., payable to Newton-le-Willows Urban District Council.

The deposit will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and the return of all documents supplied.

Plans may be inspected at the office of the Engineer and Surveyor.

Tenders in plain sealed envelopes endorsed "Tender—26 Dwellings" to be received by the Clerk of the Council, Town Hall, Market-street, Newton-le-Willows, not later than Noon on FRIDAY, 23rd JUNE, 1961.

The Council do not bind themselves to accept the lowest or any tender.

## ABERYSTWYTH
BOROUGH COUNCIL.

ERECTION OF GARAGES.

FIXED, LUMP-SUM TENDERS are invited for the ERECTION AND COMPLETION OF TWO BLOCKS OF SIXTEEN GARAGES, on a site at Fifth-avenue, Penparcau, Aberystwyth.

Specification, Form of Tender and Plans may be obtained from the Borough Surveyor and Water Engineer, Park-avenue, Aberystwyth, on payment of a deposit of £1 1s., which will be refunded on receipt of a bona fide tender for the works or the return of all documents supplied.

Tenders must be delivered to the undersigned not later than 12 noon on MONDAY, 5th JUNE, 1961, in the envelope provided.

The Council do not bind themselves to accept the lowest or any tender.

W. PHILIP DAVIES,
Town Clerk.

Town Hall,
Aberystwyth.
2nd May, 1961.

## ABERGAVENNY
RURAL DISTRICT COUNCIL.

Separate LUMP SUM TENDERS are invited for the following:—
(a) Llanwenarth Citra, SMALL WATER SCHEME.
(b) Mardy Bungalows Site, EIGHT 3-BEDROOMED HOUSES.
(c) Llanddewi Skirrid, FOUR 3-BEDROOMED HOUSES, WITH SMALL SEWAGE DISPOSAL WORKS.
(d) Great Oak Housing Site, Brynygwyn, FOUR 3-BEDROOMED HOUSES, WITH SMALL SEWAGE DISPOSAL WORKS.
(e) Lower House Site, Govilon, SITE WORKS, ROADS AND SEWERS.
(f) Llanvapley, FOUR 3-BEDROOMED HOUSES.

Particulars of these Contracts, together with drawings, Specifications, Bills of Quantities, Forms of Tender and submission dates, can be obtained from Mr. D. T. D. Evans, Architect/Surveyor, Abergavenny Rural District Council, Council Offices, Monk-street, Abergavenny.

ARTHUR J. ROGERS,
Clerk of the Council.

Council Offices,
Monk-street,
Abergavenny,
Mon.

## WATFORD
BOROUGH.

ELDERLY PERSONS' FLATS.

TENDERS are invited for the CONSTRUCTION OF 19 BEDSITTING ROOM FLATS AND ONE TWO-BEDROOM FLAT IN ONE THREE-STOREY BLOCK at the junction of Hagden-lane and Brightwell-road, Watford.

Applications for documents must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on MONDAY, 29th MAY, 1961.

Contract documents will be forwarded as soon as possible after that date.

No Tender will be considered unless upon the official form which must be sent to the undersigned in the envelope provided for the purpose by 2 p.m. on WEDNESDAY, 5th JULY, 1961.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.
April, 1961.

## WEST SUSSEX
COUNTY COUNCIL.

Contractors wishing to submit a TENDER for the undermentioned project, are invited to apply for permission to tender; such applications to be addressed to the County Architect, County Hall, Chichester, to reach him not later than 29th MAY, 1961.

EXTENSIONS AT WORTHING COLLEGE OF FURTHER EDUCATION (Job No. 6782).

Quantities will be issued on or about 21st July, 1961.

The County Council does not bind itself to accept the lowest or any Tender, and the firm whose Tender is accepted must be prepared to enter into a contract in a form to be prepared by me.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

## HARROW
BOROUGH.

ERECTION OF FENCES.

TENDERS are invited for the ERECTION OF BOUNDARY AND REAR GARDEN FENCES, SIDE ENTRANCE GATES AND CLOSE BOARDED SCREENS on the Corporation's Weald Village and Kenton-lane Housing Estates, Harrow Weald. The work entails the removal of existing fences, the erection of approximately 9,700 yds. run of Woodlands fencing, 1,325 yds. run 6 ft. high close boarded fencing and gates, etc., on the Weald Village Estate, and approximately 625 yds. run Woodlands fencing, 135 yds. run 6 ft. high close boarded fencing and gates, etc., on the Kenton-lane Estate.

Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender and Specification obtained on application to, the Borough Engineer, Council Offices, "Cottesmore," 48 Uxbridge-road, Stanmore, Middlesex, upon payment of two pounds, by crossed cheque for each Tender, made payable to the Harrow Corporation, returnable where a bona fide Tender reaches me within the prescribed time.

Tenders, on the prescribed form, must be enclosed in plain sealed envelopes, bearing no indication, or mark, of the the sender and carrying the label provided, suitably endorsed and delivered to my Office, not later than 10 a.m. on TUESDAY, 13th JUNE, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

DAVID PRITCHARD,
Town Clerk.

## BOURNEMOUTH
COUNTY BOROUGH.

TO FENCING CONTRACTORS.

TENDERS are invited on a fixed price basis for the ERECTION OF PROTECTIVE WIRE FENCING to the proposed St. Katharine's Church of England Primary School Site, Thornbury-road, Bournemouth.

Plans, Specification and Tender Form obtainable from and Conditions of Contract inspected at the Borough Architect's Office, Room 106, Town Hall, Bournemouth, on payment of a deposit of one guinea, refundable on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m., 10th JUNE, 1961.

A. LINDSAY CLEGG,
Town Clerk.

## FRIERN BARNET
URBAN DISTRICT COUNCIL.

CLEANING OF ARTIFICIAL STONEWORK.

TENDERS are invited from contractors for the CLEANING OF THE ARTIFICIAL STONEWORK at the Town Hall.

Documents may be obtained from E. H. Start, A.M.I.C.E., A.M.I.Mun.E., Engineer and Surveyor, Town Hall, N.11, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 5th JUNE, 1961, in envelopes endorsed "Cleaning of Stonework" and bearing no indication of the sender.

R. S. CLOTHIER,
Clerk of the Council.

## WANSTEAD AND WOODFORD
BOROUGH COUNCIL.

HOUSING CONTRACTS.

Invitations are requested from firms who will have the necessary staff and plant available at about the dates stated to undertake the following contracts:

CONTRACT 1.—Victoria-road, E.18. 21 FLATS. AUGUST, 1961.

CONTRACT 2.—Snakes-lane, Woodford Green. 9 FLATS. SEPTEMBER, 1961.

CONTRACT 3.—Grove Hill, E.18. 23 FLATS. SEPTEMBER, 1961.

CONTRACT 4.—Prospect-road, Woodford Green. 24 FLATS. OCTOBER, 1961.

CONTRACT 5.—New Wanstead, E.11. 4 FLATS. JANUARY, 1962.

Applicants are requested to submit their names by WEDNESDAY, 7th JUNE, 1961, to L. S. Jeffery, Borough Surveyor, Municipal Offices, High-road, Woodford, E.18, stating for which contract(s) they wish to be considered. From applications received lists of firms will be selected to whom the Bill of Quantities will be forwarded in due course.

## WOKING
URBAN DISTRICT COUNCIL.

REPLACEMENT OF FIREPLACES.

TENDERS invited for REPLACEMENT OF 76 FIREPLACES WITH NEW FIREPLACES AND TILED SURROUNDS at Gloster-road, Old Woking.

Tender documents from Engineer and Surveyor upon payment of 2 guineas deposit, refunded on receipt of bona fide tender not subsequently withdrawn.

Tenders to Clerk of the Council by 12 noon on THURSDAY, 15th JUNE.

## BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.
CONTRACT NO. 709.
27 FOUR-STOREY DWELLINGS, TESSALL-LANE, EGGHILL-LANE ESTATE, NORTHFIELD.

The House Building Committee invite TENDERS for the ERECTION of the above.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Baskerville House, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 25th MAY, 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona fide tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 NOON ON FRIDAY, the 30th JUNE, 1961. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

## LEEDS
REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

Fixed price TENDERS are invited for carrying out the ERECTION OF A NEW BOILER HOUSE, ETC., AT THE GENERAL HOSPITAL, BATLEY.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on THURSDAY, 25th MAY. Cheques should be made payable to the "Leeds Regional Hospital Board," and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of Messrs. Firth, Son and Blackburn, Chartered Architects, St. John's Chambers, Bradford-road, Cleckheaton.

Bills of Quantities will be ready at the end of the month and three weeks will be allowed for Tendering.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

## WREXHAM
BOROUGH.

FIXED-PRICE TENDERS.
(a) FENCING CONTRACTS.
Queen's Park and Huntroyde Estates.
(b) PAINTING CONTRACT.
Steelwork to Road Bridge, Felinpuleston; Aqueducts (2), Kings Mill.

FIXED-PRICE TENDERS are invited for the above Contracts.

Application for details, Tender Form and Specification to the Borough Engineer and Surveyor, Guildhall, Wrexham, enclosing deposits of £1 1s. for *each* Contract, refundable on receipt of a bona fide Tender.

Closing date for receipt of Tenders, FRIDAY, 9th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
May, 1961.

## DAGENHAM
BOROUGH.

ROOFING AND WINDOWS, NEW TRANSPORT WORKSHOPS.

TENDERS are invited for the following sub-contracts:—
(a) SUPPLYING AND LAYING 980 YDS. SUP. (APPROX.) FELT ROOFING;
(b) SUPPLYING AND INSTALLING METAL WINDOWS.

Forms of tender (obtainable from the Borough Engineer and Surveyor—quote (a) or (b)) must be returned to me in the envelopes provided by NOON on 9th JUNE, 1961.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

## WEST HARTLEPOOL
COUNTY BOROUGH.

TO SANITARY FITTING CONTRACTORS.

TENDERS are invited from Sanitary Fitting Contractors for the SUPPLY AND DELIVERY OF SANITARY FITTINGS at the High School for Girls, West Hartlepool.

Drawings, Specification and Form of Tender and any other information may be obtained from the Architect, viz.: Leonard Aston, Esq., Dip.Arch. (Dunelm), A.R.I.B.A., Regent Buildings, York-road, West Hartlepool.

Tenders should be submitted in a plain sealed envelope, endorsed as directed in the Specification and should be addressed to the Chairman of the Education Committee, Town Clerk's Office, Municipal Buildings, West Hartlepool. The envelope must not bear any name, mark or franking indicating the sender and should be received at the Town Clerk's Office not later than TUESDAY, 6th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
15th May, 1961.

## LIVERPOOL CITY.

WATER DEPARTMENT.
VYRNWY ESTATE.

TENDERS invited for EXTERIOR PAINTING AND INTERNAL DECORATION OF PROPERTIES.

Documents from Water Engineer, 55 Dale-street, Liverpool, 2, or Resident Land Agent, Lake Vyrnwy, via Oswestry, Salop. Tenders returnable by 5th JUNE, 1961.

THOMAS ALKER,
Town Clerk.

## LEYLAND
URBAN DISTRICT COUNCIL.

HOUSING CONTRACT.

The Council invite TENDERS from registered Contractors for the following housing contract which is to tendered for on a Fixed Price Basis:

Contract No. 34—34 HOUSES, Lower House Estate, Leyland.

Bills of Quantities and Forms of Tender together with Conditions of Contract may be obtained from, and plans inspected at the office of Mr. F. D. Howe, M.I.Mun.E., Engineer and Surveyor, Council Offices, Leyland, on application on or after TUESDAY, the 23rd MAY, 1961, this application to be accompanied by a deposit of £2 2s. (cheques to be made payable to the Council) which shall be returned on receipt of a bona fide tender and the return of all documents.

Tenders, on the forms provided, in a plain sealed envelope appropriately endorsed "Tender for 34 Houses," but bearing no mark or indication of the sender, must reach the undersigned not later than 10 a.m., TUESDAY, the 6th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any tender.

W. C. F. GODSELL,
Clerk to the Council.

Council Offices,
Leyland,
Lancs.
May, 1961.

## DUNSTABLE
BOROUGH.

TO DECORATORS.

The Council invites FIXED-PRICE TENDERS for the EXTERIOR REDECORATIONS of the following dwellings:

CONTRACT NO. 1: 98 HOUSES AND FLATS—Beecroft Estate.
CONTRACT NO. 2: 130 HOUSES AND FLATS—Chiltern-road Estate.
CONTRACT NO. 3: 116 HOUSES AND FLATS—Downside Estate.

Contractors may tender for all contracts, individual contracts, or sections of any contracts.

Specifications and forms of tender may be obtained from the Housing Estates Manager, Priory House, Dunstable, on payment of £1 1s. for EACH set of documents, which will be refunded on receipt of a bona fide tender or tenders not subsequently withdrawn.

TENDERS MUST BE DELIVERED not later than MONDAY, 5th JUNE, 1961, and must be addressed to the undersigned in the endorsed envelope provided and must not bear any mark or name indicating the sender.

The council does not bind itself to accept the lowest or any tender and reserves the right to accept any section of any tender and not necessarily the whole tender.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable,
Beds.

## EPPING AND ONGAR
RURAL DISTRICT COUNCIL.

MODERNISATION OF NOS. 1-20 HOE-LANE, ABRIDGE.

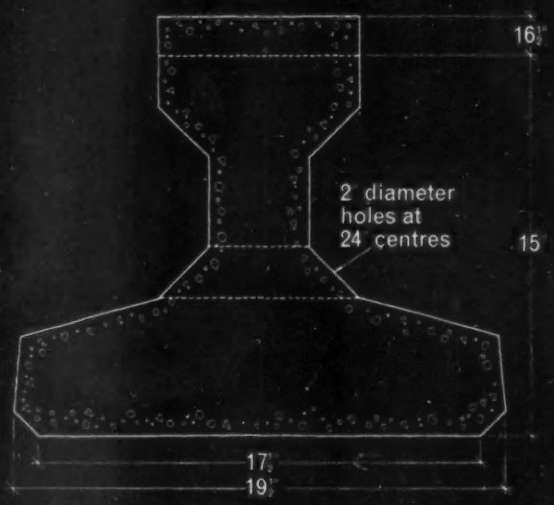
TENDERS are invited for this work.

Contractors should apply for tender documents by 27th MAY, 1961, to the Engineer and Surveyor, 209 High-street, Epping, enclosing £2 2s. deposit, which will be returned on receipt of a bona fide tender or return of all documents.

# Bison bridge beams

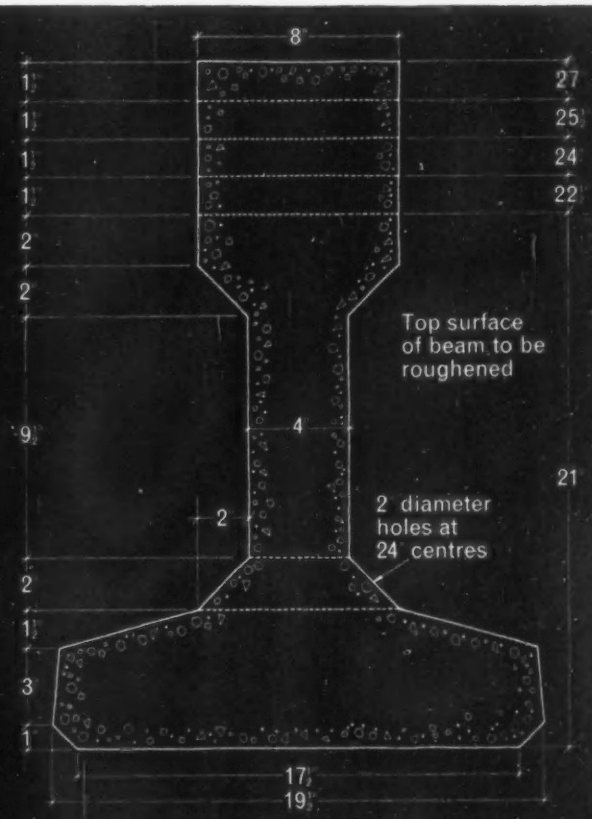
to the standard design of

The Prestressed Concrete Development Group




Precast sections (i) and (ii)

TYPE 1




Precast sections (iii) (iv) (v) (vi) and (vii)

TYPE 2

**BISON**

**CONCRETE LIMITED the largest structural precast concrete specialists in the world**

LONDON Whitehall 5504 · BIRMINGHAM Midland 0331 · LEEDS Leeds 73211 · Glasgow City 3292

637

Joinery **by Boulton and Paul**

High Quality Standard Joinery obtainable in a wide range of types and sizes. Manufactured from selected timber, with heads and cills out of the solid. First-class workmanship throughout. External Joinery treated with 100% lead priming paint carefully applied by brush. Write for a copy of the latest illustrated Catalogue or ask our local Representative to call.

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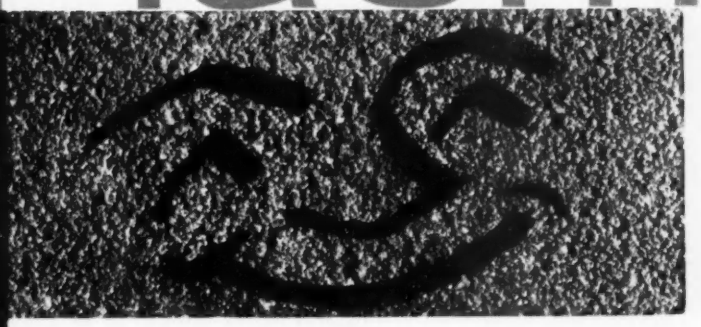
*Eyes front for*

# Plasmor



Lillington's PLASMOR is the mortar plasticiser that everyone prefers . . .

**On Site,** builders save time by using Plasmor . . . it spreads like butter, does not stick to the trowel . . . gives faster brick-laying and plastering.

**Off Site,** Architects and Contractors invariably choose Plasmor, for they know the name Lillington — it has been synonymous with quality and economical prices for the last 50 years.

★ **Eliminates lime — saves cement**
★ **Reduces shrinkage cracks**
★ **Improves adhesion**
★ **Lowers costs — secures your contract**

***Write today for Booklet M***

*All products are supplied in FREE containers*

LILLINGTONS **Plasmor**

GEORGE LILLINGTON & CO. LTD., WILLOW LANE, MITCHAM, SURREY Tel: MITcham 1066

For Scotland: 42 High Street, Greenock

# NEW Armstrong acoustic tile

## TACETONE makes ceilings look better than ever!

Acoustic ceilings take on a newer, more exciting look than ever with Armstrong's new acoustic tile—Tacetone. With its three-dimensional ridged surface pattern, Tacetone can give either directional emphasis or help create an impression of space, allowing stimulating new decorative effects to be obtained.

Like Travertone, this extremely efficient new tile is made from fire-resistant mineral fibre. Two coats of white emulsion paint are factory applied. Tacetone tiles measure 12 ins. x 12 ins. x ⅜in. and are easy to install with acoustic cement H605 directly on to a flat ceiling surface. In addition, they are kerfed and back cut for metal suspension.

Please write for full details

Armstrong acoustics

ARMSTRONG CORK COMPANY LTD · ACOUSTICS DEPARTMENT
CARLISLE ROAD · LONDON N.W.9. Tel: COLindale 9744

AT.25

## EAST SUFFOLK
STANDING JOINT COMMITTEE.

ERECTION OF POLICE HOUSE AT REYDON (SOUTHWOLD).

Building Contractors are invited to apply to TENDER for the ERECTION OF ONE POLICE HOUSE AT REYDON.

Applications should be made to the County Architect, Mr. E. J. Cundiffe, A.R.I.B.A., County Hall, Ipswich, before the 2nd JUNE, 1961; each must be accompanied by a deposit of £2 2s. 0d. (Cheques payable to the East Suffolk County Council), returnable on receipt of Tender.

Specifications and Drawings will be sent out on 6th June, 1961, for fixed price Tenders required by the 20th June, 1961.

## CHATHAM
BOROUGH.

ERECTION OF NEW JUNIOR LIBRARY ADJOINING PUBLIC LIBRARY, NEW-ROAD, CHATHAM.

TENDERS are invited for the building works necessary in connection with the ERECTION OF A PREFABRICATED JUNIOR LIBRARY ADJOINING THE PUBLIC LIBRARY, NEW-ROAD, CHATHAM.

The prefabricated building will be supplied and erected under a separate contract, and left ready for services and completion by the Building Contractor.

Contractors are given the opportunity of submitting either a Fixed Price Tender, or a Tender including cost variation clauses for labour and materials.

Forms of Tender, Drawings and Specification may be obtained from J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham, on payment of a deposit of two guineas which will be refunded on receipt of a bona fide Tender or the return of all issued documents.

Tenders, in a sealed envelope, to be delivered to the undersigned not later than 12 NOON on FRIDAY, 2nd JUNE, 1961.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

## CHESHUNT
URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING OF 134 DWELLINGS AT CENTRAL-AVENUE HOUSING ESTATE, CHESHUNT.
CONTRACT NO. 386.

FIXED PRICE TENDERS are invited for EXTERNAL PAINTING AND GENERAL REDECORATION WORKS TO 134 DWELLINGS on the Council's Central-avenue Estate.

Specification (no quantities) can be obtained from the Engineer and Surveyor at the Manor House—Deposit £2. Tenders to be delivered to the undersigned by NOON on MONDAY, 5th JUNE, 1961.

Specifications will be available on and after 23rd May, 1961.

G. S. NEWNHAM,
Clerk of the Council.

Manor House,
Waltham Cross,
Herts.

# PUBLIC APPOINTMENTS

## LONDON
COUNTY COUNCIL.

VALUATION DEPARTMENT—BUILDING SURVEY DIVISION.

BUILDING SURVEYORS/ESTIMATORS required to undertake variety of interesting work on the large road programme for London and other important schemes.

Work includes preparation of sketch schemes and approximate estimates for works to buildings affected by road improvements, schedules of dilapidations and condition, structural surveys and technical reports.

Positions superannuable with commencing salaries up to £1,500 according to experience and qualifications.

Particulars and form from William Webb, F.R.I.C.S., Valuer to the Council (E/B/1302/5a), County Hall, S.E.1.

## WEST HARTLEPOOL
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

One ASSISTANT ARCHITECT, Salary A.P.T. III (£960-£1,140);

One ASSISTANT QUANTITY SURVEYOR, Salary A.P.T. III (£960-£1,140);

Two CLERKS OF WORKS, Salary Miscellaneous 6 (£760-£825).

National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination is required.

The Department has a programme including College of Further Education, Secondary and Primary Schools, Housing and Welfare Schemes.

Applications, stating age and details of experience, together with the names of two referees, should be addressed to the Borough Architect, Municipal Buildings, West Hartlepool, and received by him not later than FRIDAY, 9th JUNE, 1961.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
11th May, 1961.

## YORK CITY.

Applications are invited from persons with the appropriate qualifications for the following permanent appointments:

(a) SENIOR ASSISTANT ARCHITECT (A.P.T. Grade V, £1,310-£1,480 p.a.).

(b) ASSISTANT ARCHITECT (A.P.T. Grade IV, £1,140-£1,310 p.a.).

(c) SENIOR ASSISTANT QUANTITY SURVEYOR (A.P.T. Grade IV, £1,140-£1,310 p.a.).

(d) ARCHITECTURAL ASSISTANT (A.P.T. Grade I, £545-£815 p.a.).

(e) ASSISTANT QUANTITY SURVEYOR (A.P.T. Grade I, £645-£815 p.a.).

In respect of appointments (a), (b) and (c) the tenancy of a house, if considered necessary, may be offered for a period of 12 months in order that the successful applicants may be afforded time in which to obtain own accommodation.

Details of appointments and application forms may be obtained from the undersigned, to whom completed forms must be returned not later than first post on 2nd JUNE, 1961.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8 St. Leonard's-place,
York.

## CENTRAL ELECTRICITY GENERATING BOARD.

MIDLANDS PROJECT GROUP.
THIRD ASSISTANT ENGINEER (CIVIL).

Applications are invited for the appointment of THIRD ASSISTANT ENGINEER (CIVIL), at Sizewell "A" Power Station, Suffolk.

Applicants should have experience in design, construction and administration of large civil engineering works. The work will entail the supervision of deep excavations, tunnelling, off-shore headworks, foundations, reinforced concrete and general industrial building work.

Applicants should preferably be suitably qualified.

The salary will be within Grade 7, Scale 13, of the National Joint Board Agreement, i.e. £1,285-£1,610 per annum.

Applications should be made on standard form AE.6, available from the Administrative Officer, Midlands Project Group, P.O. Box No. 314, Birmingham 30, and should be forwarded to him so as to arrive not later than 5th JUNE, 1961.

Envelopes should be marked "Confidential—Staff Vacancy No. MPG.34/61."

## MIDDLESBROUGH
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

The following staff required for variety of interesting work in a rapidly developing area:—

PRINCIPAL ASSISTANT ARCHITECT.

SENIOR ASSISTANT ARCHITECTS.

ASSISTANT ARCHITECTS.

QUANTITY SURVEYOR.

Salaries, and commencing points within the grades, range from A.P.T. III (£960-£1,140) to Scale A (£1,315-£1,565) according to qualifications and experience.

Application forms from J. A. Kenyon, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer and Surveyor, Municipal Buildings, returnable, together with copies of two recent testimonials, by MONDAY, 5th JUNE.

## SURREY
EDUCATION COMMITTEE.

EWELL COUNTY TECHNICAL COLLEGE, REIGATE-ROAD, EWELL.

Required SEPTEMBER, a LECTURER (a) to teach Building Construction to O.N.C. and H.N.C. Students; OR

(b) to teach in Craft Department and be responsible for co-ordination of Department with special responsibility for Pre-Apprenticeship Course.

Applicants should be well qualified, have good teaching and industrial experience, and be able to show initiative and progressive methods of developing work.

Salary, £1,370 x £35/£40-£1,550, plus London Allowance £38 or £51.

Applications to be returned to Principal on available forms within seven days of date of advertisement.

## BIRKENHEAD
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent positions:

(a) CHIEF ASSISTANT ARCHITECT, Scale "A" (£1,300-£1,565).

(b) PRINCIPAL ASSISTANTS, A.P.T. V (£1,310-£1,480).

(c) ASSISTANT ARCHITECTS, A.P.T. IV (£1,140-£1,310).

(d) ARCHITECTURAL ASSISTANTS, A.P.T. III-IV (£960-£1,310).

Applicants for posts (a), (b) and (c) must be fully qualified and (d) suitably qualified. Salaries commensurate with qualifications and experience. Assistance given to provide Housing Accommodation by rental or mortgage. The Corporation's Building Programme affords many opportunities for a variety of interesting and important work and advancement in the profession. Application form from Borough Architect, 3 Conway-street, Birkenhead, to be returned by 30th MAY, 1961. Relationship to members or senior officers of the Council must be disclosed.

## WALTHAMSTOW
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.
CLERK OF WORKS.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. II (£815-£960) per annum, exclusive of London Weighting) with the commencing salary according to experience.

Applicants should have a thorough knowledge of the building trade and be capable of supervising large housing contracts.

The Council will make a 100 per cent. advance for house purchase, if required, in this or adjoining Boroughs.

Application forms, obtainable from the Borough Architect, Town Hall, Walthamstow, E.17, must be returned to the undersigned by NOON on FRIDAY, 2nd JUNE, 1961.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
10th May, 1961.

## AIR MINISTRY

Requires QUANTITY SURVEYING ASSISTANTS, Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of estimates.

Salary, which is dependent upon age, qualifications and experience, ranges from £726 (age 23) to £961 max. in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, viz.:—

Technical Grade II, £961-£1,098. 123 posts.

Technical Grade I, £1,098-£1,348. 42 posts.

Technical Grade B, £1,348-£1,552. 6 posts.

Technical Grade A, £1,439-£1,697. 6 posts.

Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.

Overseas tours for which special allowances ranging at present up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. 5-day week with 18 days' paid leave a year initially.

Applicants, who must be natural born British subjects, must hold O.N.C. (Building or Builders Quantities) or equivalent, and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage. Forms from Manager (P.E.2), Ministry of Labour, Professional & Executive Register, Atlantic House, Farringdon-street, London, E.C.4. Candidates selected will be interviewed in Air Ministry, London and certain expenses reimbursed. Only applicants selected for interview will be advised.

## NOTTINGHAM
CORPORATION

REQUIRE CLERK OF WORKS (TEMPORARY)

to supervise the construction of the new Playhouse Theatre, Nottingham. The work will cost approximately £330,000 and the appointment will last just under two years. Applications as soon as possible to the Town Clerk, The Guildhall, Nottingham, should include full particulars of experience and details of previous contracts on which the applicant has been engaged, stating in which capacity, and the salary required.

The names and addresses of two persons to whom reference may be made for testimonials should also be given.

## NORFOLK
EDUCATION COMMITTEE.

BUILDING INSPECTOR required in the Architect's Section of the Education Office. Salary Grade A.P.T. I-II (£645 to £960)—commencing salary according to experience. Thorough training and experience in the building trade essential. Capable of working on own initiative with a minimum of supervision, supervision of work in progress, etc., carrying out small surveys and preparing detailed specifications for repairs and minor works.

The successful candidate will be required to live in or near King's Lynn. Grant towards removal expenses.

Forms of application from the undersigned on receipt of S.A.E.; to be returned by 2nd JUNE, 1961.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich,
Norfolk.
NOR. 49A.

## AIR MINISTRY

require SENIOR TAKERS OFF in Quantities Division, London. Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities). Salaries (inner London scale) from £1,448 to £2,015. Commencing salary A.Q.E. Non-pensionable but long term with prospects of establishment and/or promotion. 5-day week, 22 days' paid leave. Applicants must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, S.W.1. Quoting J.340/OA.

## BUILDING SURVEYORS

South Western Electricity Board require two BUILDING SURVEYORS, one to be stationed at Taunton, Somerset and the other at Pool, Cornwall.

Salary within the range of £1,105 to £1,325 per annum.

Duties will include surveying existing premises, preparation of schedules of dilapidations, drawings, specifications, estimates, etc., for alterations and additions to existing buildings, preparation of maintenance programmes, and supervision of work.

Attractive service conditions, including pension scheme.

Applicants should be Associate Members of the Royal Institute of Chartered Surveyors (Building) or of the Incorporated Association of Architects and Surveyors (Building).

APPLICATIONS TO BE MADE ON STANDARD FORM AE6/ACT *OBTAINABLE BY POSTCARD ONLY* FROM THE ESTABLISHMENTS OFFICER, **SOUTH WESTERN ELECTRICITY BOARD,** ELECTRICITY HOUSE, COLSTON AVE., BRISTOL. CLOSING DATE FOR RECEIPT OF COMPLETED APPLICATIONS IS 5TH JUNE, 1961.

## OXFORD CITY.
EDUCATION COMMITTEE.

COLLEGE OF TECHNOLOGY.
LECTURER IN TOWN PLANNING.

Applications for this new full-time TEACHING POST in the Oxford School of Architecture and Building are invited from architects who are Corporate Members of the Town Planning Institute and who have recent experience of Planning.

The candidate appointed will, in the first instance, be required to develop a part-time post-graduate course for architects and others who seek a planning qualification.

Salary—Burnham Scale.

Further particulars and application forms (stamped addressed envelope) can be obtained from The Principal, College of Technology, Headington-road, Oxford, to whom they should be returned by 1st JUNE, 1961.

## WESSEX
REGIONAL HOSPITAL BOARD.

An ASSISTANT QUANTITY SURVEYOR is required for the Board's Quantity Surveying Section within the Regional Architect's Department. Salary scale £905 x £35(1) x £45(6) x £50(2) to £1,310 per annum. This post offers an excellent opportunity for obtaining wide experience in dealing with the Board's expanding hospital building programme. Candidates must be A.R.I.C.S.

Please apply to the Secretary, Highcroft, Romsey-road, Winchester, for application form which should be returned by 27th MAY, 1961.

## EAST SUFFOLK
COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £815-£960.

Applications are invited for the above appointment which offers interesting and responsible work in connection with the Council's extensive programme of school and other building.

The starting salary will be fixed according to qualifications and experience; removal expenses and a settling-in grant of £25 will be paid in approved cases and the appointment will be subject to the provisions of the Superannuation Acts.

Applications, stating age, qualifications, experience and present employment, together with the names of two referees, must be delivered to the County Architect, Mr. E. J. Cundiffe, A.R.I.B.A., County Hall, Ipswich, by WEDNESDAY, the 31st MAY, 1961.

## PORTSMOUTH CITY.

CITY ENGINEER'S DEPARTMENT.

Vacancies for ASSISTANT BUILDING SURVEYORS:—

(a) For district inspection work. Salary Grade A.P.T. II (£815-£960) if holding a recognised Building Inspector's certificate, or Grade I (£645-£815) if holding H.N.C. in Building.

Candidates must be qualified to drive a car. Essential User Car Allowance payable to car owner (Assisted Purchase Scheme available if required).

(b) For work in connection with Means of Escape in Case of Fire. Salary Grade A.P.T. II (£815-£960). Candidates preferably with experience in the administration of Sec. 34, Factories Act 1937, and local Acts should be capable of making surveys of existing factory and other buildings, be neat and quick draughtsmen, and suitably qualified.

Consideration given to housing for married applicants.

Full details ad names of two referees to City Engineer, Municipal Offices, 1 Clarence-parade, Portsmouth, by the 31st MAY.

Canvassing disqualifies.

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SC61

## BRITISH RAILWAYS.

Vacancies exist in the office of the Architect, Eastern Region, British Railways, at King's Cross Station for BUILDING SURVEYORS in connection with the alteration and modernisation of existing buildings. The office is engaged on a wide range of existing buildings and gives responsibility for administration and site supervision for those with ability. Salary range £945-£1,020. Starting salary will be determined in accordance with qualifications and experience. Modern working conditions, 5-day week, rail travel concessions. Apply in writing to the Architect, c/o Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1.

## SUNBURY-ON-THAMES
URBAN DISTRICT COUNCIL.

PLANNING ASSISTANT.
ARCHITECTURAL DRAUGHTSMAN.

Applications invited for the above mentioned appointments in the Engineer and Surveyor's Department. Salary in each case A.P.T. II (£815-£960 p.a.) plus London allowance.

Applications giving details as to experience, present and previous appointments, etc., and giving the names of two persons to whom reference may be made should reach the Council's Engineer and Surveyor by 31st MAY, 1961.

Council Offices,
Sunbury-on-Thames,
Middlesex.
May, 1961.

## LEWISHAM
METROPOLITAN BOROUGH.

Applications are invited from professionally qualified Architects for the following posts :—

SENIOR ASSISTANT ARCHITECT. Salary scale A.P.T. V (£1,355-£1,525 per annum).

ASSISTANT ARCHITECT. Salary scale A.P.T. III (£1,005-£1,185 per annum) or A.P.T. III-IV (£1,005-£1,355 per annum) or A.P.T. IV (£1,185-£1,355 per annum) according to qualifications and experience.

Further particulars and form of application from Town Clerk (Dept. F), Lewisham Town Hall, Catford, S.E.6. Closing date 13th JUNE, 1961.

## BERMONDSEY
METROPOLITAN BOROUGH.

APPOINTMENT OF
GENERAL FOREMAN,
A.P.T. Grade III (£960-£1,140) plus London Weighting.

Applications invited for position of
GENERAL FOREMAN.

Should be capable of supervising all trades and experienced on construction of multi-storey dwellings.

Five-day week, 18 working days' leave, generous sick pay scheme, etc. Applicants should not be more than 51 years of age unless with transferable Local Authority service. Further details from Building Manager, Bermondsey Borough Council, Municipal Offices, Spa-road, S.E.16.

## BRISTOL
COLLEGE OF SCIENCE AND TECHNOLOGY,
ASHLEY DOWN, BRISTOL, 7.

DEPARTMENT OF ARCHITECTURE.
Head of Department: K. H. Panter, A.R.I.B.A., A.R.W.A., F.R.S.A.

The Governors invite applications for the following new posts in this developing department :—

LECTURER IN BUILDING SCIENCES AND MATERIALS. Applicants should possess good architectural qualifications or be otherwise well qualified to take responsibility for this section of work. Previous experience of research or project work desirable.

ASSISTANT LECTURER IN HISTORY OF ARCHITECTURE. Applicants should be well qualified to take responsibility for the teaching and development of studies in History of Architecture, and associated subjects. Assistance with general Studio work of the first two years will be required. There will be facilities for research work.

Staff are expected to co-operate in the teaching, analysis and criticism of all aspects of design from basic principles.

Salary: Lecturer within range £1,370-£1,550; Assistant Lecturer within range £790-£1,435. (Scales at present under review.)

Details and application forms from the Registrar. Please quote ref. CST 61/16.

## GLAMORGAN
COUNTY COUNCIL.

Invite applications for the permanent appointment of a SENIOR ASSISTANT HEATING ENGINEER, A.P.T. V (£1,310-£1,480 per annum) in the Architect's Department. Candidates should be experienced in estimating, designing and progressing heating installation works in schools and other county buildings. The commencing salary may be above the minimum of the grade and a temporary lodging allowance will be paid in certain circumstances.

Applications, giving details of age, training, qualifications and experience, together with the names of two referees, to be forwarded to the County Architect, County Hall, Cardiff, by MONDAY, 12th JUNE, 1961.

RICHARD JOHN,
Clerk of the County Council.

## NEW SARUM CITY.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR at a salary within the range of A.P.T. III, £960-£1,140, according to age and experience.

Candidates should have passed the final examination of the Royal Institution of Chartered Surveyors (Quantities).

The appointment is superannuable and will be subject to the provisions of the National Scheme of Conditions of Service and to the passing of a medical examination. Housing accommodation will be offered to the successful applicant and assistance given with removal expenses.

The Department works a five-day week and has an interesting programme of work on a new Cattle Market and redevelopment areas with multi storied flats, maisonettes, old people's homes, etc.

Applications stating age, qualifications, present and previous appointments with salaries, details of experience together with names of two referees should be sent to the City Engineer, The Council House, Bourne-hill, Salisbury, Wilts, not later than FIRST POST on MONDAY, 12th JUNE, 1961.

GEO. RICHARDSON,
Town Clerk.

## EBBW VALE
URBAN DISTRICT.

ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS (2).
GRADES III-IV (£960-£1,310).

Applications are invited for the above appointments (two) in the Architect's Department of the Council.

Applicants should be at least Intermediate R.I.B.A. Standard and for Grade IV should be corporate members of the R.I.B.A. Commencing salaries within the grades according to qualifications and experience.

The Department is engaged on an interesting programme of work including new Civic Centre Buildings which involves the construction of an Indoor Swimming Pool (just commencing) Municipal Offices, Council Chamber and Public Hall. In addition there are redevelopment and general housing schemes in course of preparation.

Alternate Saturday mornings free. Canteen facilities. Local Government Superannuation Acts apply.

Applications with usual information and names of two referees to be received by the undersigned not later than WEDNESDAY, the 7th JUNE, 1961.

HOWARD J. WILLIAMS,
Clerk of the Council.

District Council Offices,
The Walk,
Ebbw Vale,
Mon.

## WORCESTER CITY.

APPOINTMENT OF
ARCHITECTURAL STAFF.

Applications are invited to fill vacancies in the Architectural Section of the City Engineer and Surveyor's Department.

TWO SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (Salary £1,140-£1,310).

Applicants must hold the A.R.I.B.A. qualification.

THREE ARCHITECTURAL ASSISTANTS, A.P.T. Grades I-II (Salary £645-£960).

The appointments are superannuable and subject to medical examination.

Housing accommodation will be offered, if necessary, and the Corporation are prepared to make a contribution towards removal expenses.

Casual Users' Car Allowance will be applicable.

Applications stating age, present and previous appointments and experience, together with the names of two referees are to be sent to the City Engineer and Surveyor, 22 Bridge-street, Worcester, by 31st MAY.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

## NORTH-EAST METROPOLITAN
REGIONAL HOSPITAL BOARD.

W. G. Plant, Dip.Arch.(L'pool), F.R.I.B.A., Regional Architect.

APPOINTMENT OF ASSISTANT
REGIONAL ARCHITECT.

The Board is engaged on a large and expanding programme of Hospital Development and has a vacancy for an ASSISTANT REGIONAL ARCHITECT who will be required to control several major projects ranging in cost from £250,000 to £2,000,000.

Applicants for the post must be registered architects having passed the requisite examinations, and must be good designers with experience in the design and management of substantial projects and experience in controlling a group of architects working as a team.

Experience in Hospital work, while not essential, is desirable.

Salary: £1,875-£2,225.

Five-day week. Leave, 25 days. Superannuable.

Application forms from the Secretary, North-East Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, W.2, to be returned by 3rd JUNE, 1961.

# SURREY COUNTY COUNCIL

**Applications invited for following appointments:**

1. Salary range £960–£1,310 p.a., plus £45 p.a. London Allowance. Successful candidates will be paid according to age and experience and will receive approved removal expenses. Applicants should state salary they expect to receive.

(a) **ARCHITECTS.** Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications and be capable of assuming responsibility for medium- to large-scale contracts.

(b) **QUANTITY SURVEYORS.** Must be A.R.I.C.S. and have had experience of estimating, taking off, valuing works in progress and final accounts for large public buildings, including all specialist works.

(c) **STRUCTURAL ENGINEERS.** Must be qualified Structural or Civil Engineer and have had experience in design and detailing of steelwork and/or reinforced concrete for medium- to large-scale contracts.

(d) **HEATING & VENTILATING ENGINEERS.** Must be A.M.I.H.V.E. and have had experience in design of large heating, ventilating, hot water supply and gas service installations. The successful candidates must be capable of taking charge of works from commencement to final completion.

2. **GRADE II** (£815–£960 p.a., plus up to £40 p.a. London Allowance).

(a) **ARCHITECTURAL ASSISTANTS.** Must be of good general training, preference given to those who have passed Inter. R.I.B.A.

(b) **QUANTITY SURVEYING ASSISTANTS.** Preference given to those who have passed Inter. R.I.C.S.

(c) **STRUCTURAL ENGINEERING ASSISTANT.** Must have knowledge of detail and some design in steel or concrete.

(d) **BUILDING SURVEYING ASSISTANTS.** Preference given to those who have passed Inter. R.I.C.S. Building Section. Sound knowledge of building construction required and must be able to prepare plans and specifications.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials, preferably one from present employer, to **County Architect, County Hall, Kingston,** as soon as possible.

## HAYES AND HARLINGTON U.D.C.

require an
ASSISTANT ARCHITECT.

Salary within grade A.P.T. IV, i.e. £1,140-£1,310 p.a. plus appropriate London "Weighting." Preference given to finalists of the RIBA. Successful candidate must be capable of preparing sketch designs, full working drawings, specifications, supervision of building contracts, etc. Housing accommodation provided if necessary. Five-day week. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 5th JUNE, 1961.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middx.

## BRACKNELL
DEVELOPMENT CORPORATION.

Applications are invited for the following vacancies in the Chief Architect's Department :—

ARCHITECTURAL ASSISTANT. Salary range £645-£815:

JUNIOR ARCHITECTURAL ASSISTANT. Salary up to £630 (commencing salary according to qualifications and experience).

The posts offer the opportunity of working on progressive schemes in Housing, Industrial and Town Centre development. Housing can be made available in suitable circumstances and time allowed, in the junior post, for technical training. Superannuation schemes, medical examination, 5-day week. Apply by THURSDAY, 1st JUNE, giving age, education, experience and any appointments held (with dates and salaries) and the names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks., stating clearly which post is applied for.

## BEXLEY
BOROUGH.

ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the ABOVE APPOINTMENT. Salary within Grade A.P.T. II (£815-£960 per annum) plus London Weighting.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 6th JUNE, 1961.

ARTHUR GOLDFINCH,
Town Clerk.

## RADNORSHIRE
COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT
ARCHITECT.

Applications are invited for the appointment of ASSISTANT ARCHITECT in the County Architect's Department. Salary Grade A.P.T. IV of the national scales (£1,140-£1,310 p.a.), the point of commencement in this grade to be according to experience.

Candidates must have passed the Final Examination of the R.I.B.A. and be suitably experienced.

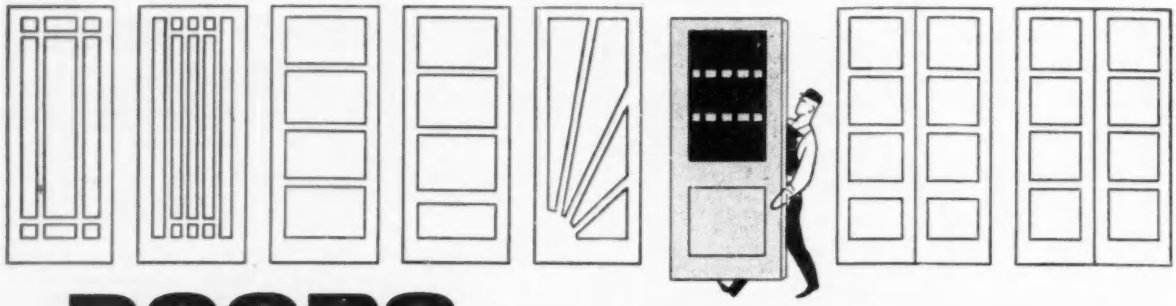
A proportion of approved removal expenses and a lodging allowance and rail fare to present home every three weeks for a period of up to three months will be paid to a married man appointed to this post.

The appointment is subject to the N.J.C. conditions of service and to the Local Government Superannuation Acts and will be terminable by one month's notice on either side.

Applications stating age, qualifications, details of experience and the names and addresses of two persons to whom reference may be made must reach the undersigned by WEDNESDAY, 24th MAY, 1961.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.



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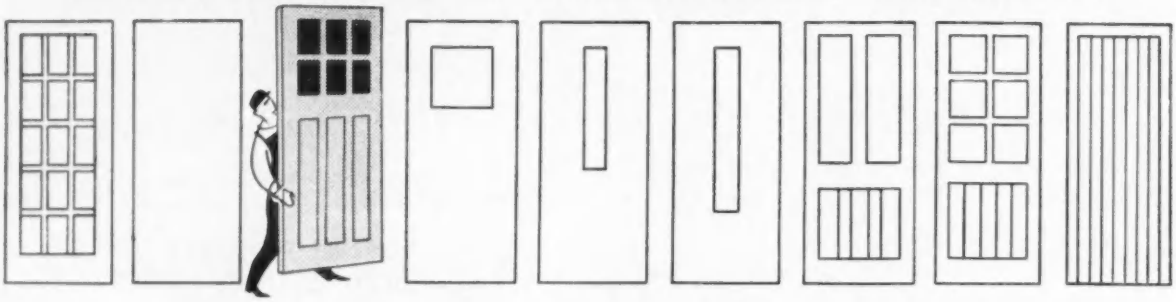

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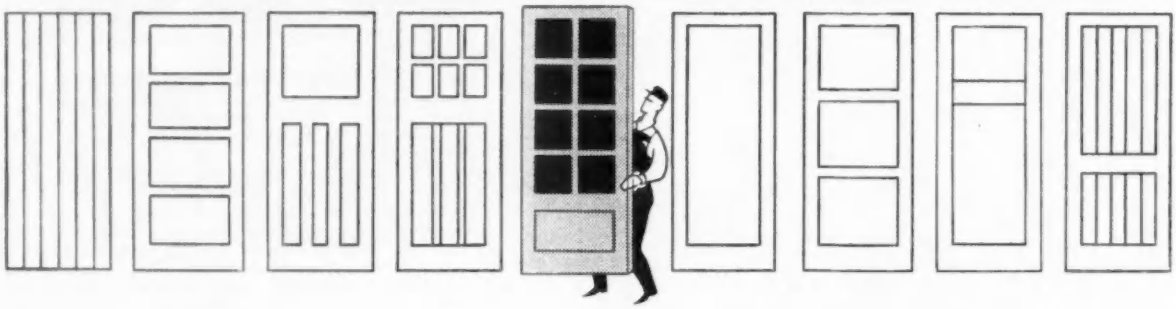

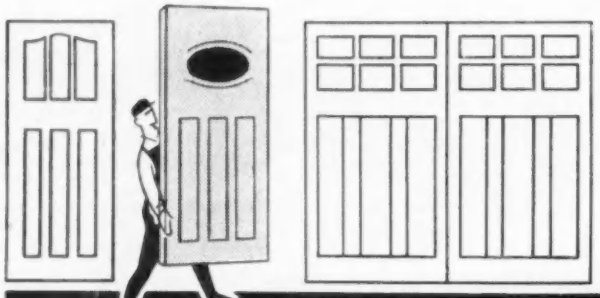

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Love Lane, Aston,
BIRMINGHAM.
Aston Cross 3291 (3 lines)

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ESSEX.
Grays Thurrock 4774/78

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## NOTTINGHAM CITY.

ESTATES AND HOUSING COMMITTEE.

Applications are invited for the following appointments in the Chief Architect's Section of the Estates Department :—

(a) ASSISTANT ARCHITECT, A.P.T. Grade IV, £1,140-£1,310;

(b) ASSISTANT ARCHITECT, A.P.T. Grade III, £960-£1,140;

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £815-£960;

(d) ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £645-£815.

Applicants for (a) should preferably be Associates of the Royal Institute of British Architects, or if not so qualified, have had appropriate professional experience, and for (b) should preferably have passed parts 1 and 2 of the R.I.B.A. final examination. Applicants for (c) and (d) should have passed the intermediate examination of the R.I.B.A.

Commencing salary in each case will be in accordance with qualifications and experience.

There is a large and interesting programme of comprehensive estate development and redevelopment schemes, including multi-storey dwellings, shopping centres, and all ancillary buildings.

The architects and assistants appointed will work in small self-contained teams under the general direction of a Group Leader and will be responsible for the design, construction and management of projects.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service.

Applications, stating age, qualifications, experience, present appointment and salary, and naming two referees, should be sent to the Estates Surveyor and Valuer, The Guildhall, Nottingham, by TUESDAY, 30th MAY, 1961.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.

## DEWSBURY
COUNTY BOROUGH.

APPOINTMENT OF BOROUGH ARCHITECT AND BUILDINGS SURVEYOR.

Applications are invited from members of the Royal Institute of British Architects for the appointment of Borough Architect and Buildings Surveyor at the commencing salary of £2,025 rising by annual increments of £75 to £2,325, with a car allowance of £112 6s. per annum. Housing accommodation will be made available for the successful applicant, if required.

Further particulars and conditions of appointment can be obtained from the undersigned, by whom applications must be received not later than the 27th MAY, 1961.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
6th May, 1961.

## BOURNEMOUTH
EDUCATION COMMITTEE.

BOURNEMOUTH MUNICIPAL COLLEGE OF TECHNOLOGY AND COMMERCE.
DEPARTMENT OF BUILDING.

Required for 1st SEPTEMBER, 1961:

ASSISTANT, Grade B, to teach Carpentry and Joinery to Advanced Craft Certificate level, and to assist with Building Science and/or Mathematics in the Ordinary National Certificate courses.

Minimum Qualifications: Licentiate Membership of the Institute of Builders, or, possession of a Higher National Certificate in Building together with a Full Technological Certificate of the City and Guilds in Carpentry and Joinery.

Applicants must have had wide experience in the building industry. Teacher training or teaching experience is desirable.

Salary according to the Burnham Technical Scale, 1959, viz.: £700 x £27 10s. to £1,150 per annum, with additions for approved qualifications and training, increments above the minimum of the scale may be considered for approved professional experience.

Further particulars and form of application may be obtained from W. R. Smedley, Esq., B.Sc., Chief Education Office, Town Hall, Bournemouth.

## BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department :—

ASSISTANT ARCHITECT, A.P.T. Grade V, £1,310-£1,480 p.a.;

ASSISTANT ARCHITECT, A.P.T. Grade IV, £1,140-£1,310 p.a.;

FEMALE MACHINE OPERATOR, General Division, £220-£530 p.a.

These appointments are superannuable and subject to medical examination.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by MONDAY, 29th MAY, 1961.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

## HUNTINGDONSHIRE.
COUNTY ARCHITECT'S DEPARTMENT.

TECHNICAL ASSISTANT (ELECTRICAL ENGINEER).

Applications are invited for the above appointment on Grade A.P.T. III (£960-£1,140), or Grade A.P.T. IV (£1,140-£1,310) according to qualifications.

The person appointed will be a member of the Engineering Section of the Department, and his duties will consist of all works connected with electrical installations related to both small and large building projects. Preference will be given to candidates studying for or actually holding the A.M.I.E.E. and the person appointed can anticipate work in connection with major electrical installations.

Application forms may be obtained from the County Architect, County Buildings, Huntingdon, and completetd forms should be returned to the undersigned by MONDAY, 29th MAY, 1961.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

## METROPOLITAN POLICE.

RECEIVER'S OFFICE.

Applications are invited for the following positions in connection with the design and erection of Police Housing, Police Stations, Single Men's Hostels, Cadets' Residential Training Centres and Magistrates' Courts within the Metropolitan Police District and schemes for major alterations to various Police buildings.

ASSISTANT ARCHITECTS.

Salary: £991 p.a. at age 25, rising by annual increments to £1,490 p.a. (Maximum salary on entry £1,318 p.a. at age 34 or over).

Qualifications: Must be registered Architects.

LEADING ARCHITECTURAL ASSISTANTS.

Salary: £1,048 p.a. rising by annual increments to £1,220 p.a.

Qualifications: Inter-R.I.B.A., H.N.C., or equivalent.

ARCHITECTURAL ASSISTANTS.

Salary: £658 p.a. at age 21 rising by annual increments to £1,048 p.a. (Maximum salary on entry £960 p.a. at age 28 or over.)

Qualifications: O.N.C., Inter-R.I.B.A., or equivalent.

TECHNICAL ASSISTANTS III.

Salary: £752 p.a. at age 21 rising by annual increments to £1,043 p.a. (Maximum salary on entry £939 p.a. at age 28 or over).

Qualifications: Inter-R.I.B.A./R.I.C.S. (Building) or equivalent.

J. INNES ELLIOTT, B.Arch., F.R.I.B.A.,
Chief Architect and Surveyor.

Apply to:
Chief Clerk,
Architect and Surveyor's Department,
New Scotland Yard, S.W.1.

## NEWCASTLE UPON TYNE
CITY AND COUNTY.

CITY ARCHITECT'S DEPARTMENT.

A unique opportunity exists in this office for competent ARCHITECTS to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:

J.N.C. "C": £1,560-£1,825 per annum.

J.N.C. "B": £1,410-£1,670 per annum.

A.P.T. V: £1,310-£1,480 per annum.

A.P.T. IV: £1,140-£1,300 per annum.

A.P.T. III: £960-£1,140 per annum.

A.P.T. II: £815-£960 per annum.

A.P.T. I: £645-£815 per annum.

The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotswood-road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.

Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education, Art and Industrial Design, Drama, Commerce, and Multi-storey Hostels, which will be the largest development of its kind in the country.

Further projects include: Airport Terminal; Abattoir and Fatstock Market; Vegetable Market; Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.

The department is also engaged on the New Town Hall, where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.

Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, indicating the grade for which they wish to apply.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.

## QUANTITY SURVEYING ASSISTANTS

required by

**ADMIRALTY**
**WAR OFFICE**
**AIR MINISTRY**
**MINISTRY OF WORKS**

Posts in London, Provinces and Overseas. Salaries in London for candidates with suitable experience range from £752 p.a. at age 21 to £1,188 p.a. Write for particulars of vacancies in each Department, and forms, to **Ministry of Labour, Technical and Scientific Register, 26, King Street, London, S.W.1. (Room 403.)**

## WILLESDEN
BOROUGH.

Applications are invited for the following permanent appointments:

(a) ARCHITECTURAL ASSISTANT, within Grade A.P.T. III (£960-£1,140 p.a.).

(b) ARCHITECTURAL ASSISTANT, within Grade A.P.T. II (£815-£960 p.a.).

(c) ARCHITECTURAL ASSISTANT, within Grade A.P.T. I (£645-£815 p.a.)

London Weighting is payable in addition to the above salaries.

Candidates for post "A" must be Associates of the R.I.B.A. and Candidates for posts "B" and "C" should have passed the Intermediate Examination of the R.I.B.A.

A programme of interesting and varied works is expected to continue for many years and opportunities are offered to imaginative designers of any age with a contemporary and practical outlook.

The appointments will be superannuable and subject to the National Conditions of Service for a five-day week, but the Council is unable to assist with housing accommodation.

Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than 10 a.m. on MONDAY, 29th MAY, 1961.

(Signed) R. S. FORSTER,
Town Clerk.

## MANSFIELD
BOROUGH.

Applications are invited for the following appointments in the Architectural Section of the Borough Engineer and Surveyor's Department :—

(a) ARCHITECTURAL ASSISTANT, Grades III/IV (£960-£1 310 per annum);

(b) GENERAL ARCHITECTURAL ASSISTANT, Grade II (£815-£960 per annum);

(c) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£645-£815 per annum).

Applicants for appointment (a) must be Corporate Members of the R.I.B.A. and for (b) must have passed the Intermediate Examination of the R.I.B.A., whilst for appointment (c) details of training and experience should be stated.

A house on service tenancy may be rented by the successful applicant for appointment (a) and it is the Corporation's wish that the persons appointed shall live within the Borough.

Applications, stating age, marital state, training, past and present appointments with salary, and experience, together with the names of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, Notts., to arrive not later than MONDAY, 29th MAY, 1961.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield,
Notts.

## EAST HAM
COUNTY BOROUGH.

HOUSING DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited. Salary Grade A.P.T. II (£815 x £30 (4) x £25 (1)-£960) plus London Weighting.

Applicants should be experienced in the preparation of working drawings, details for construction of new dwellings and conversion of existing properties.

Further details and application form (returnable by 7th JUNE, 1961) from the Town Clerk, Town Hall, East Ham, E.6.

## HARLOW
DEVELOPMENT CORPORATION.

Applications invited for an ASSISTANT CLERK OF WORKS (TEMPORARY). Salary £815-£960 per annum on A.P.T. II. Housing available in suitable cases.

Applications giving full details and names of two referees to the General Manager, Terlings, Harlow, Essex WITHIN 10 DAYS.

## CANTERBURY CITY.

SENIOR ASSISTANT ARCHITECTS. Salary range up to £1,480 (max. A.P.T. V).

Applications are invited for ABOVE APPOINTMENTS in City Architect and Planning Officer's Department. Commencing salary according to ability and experience.

Applicants should be qualified and be capable of supervising contracts from commencement to completion, and of co-ordinating the work of all sub-contractors.

The programme of work is varied and interesting, and offers considerable scope for initiative and experience. The successful candidates will be engaged on one of the following: Housing, General Works, Public Buildings, Education.

Housing accommodation available if necessary.

Applications, with the names of two referees, to the City Architect and Planning Officer, Municipal Buildings, Canterbury, by FRIDAY, 26th MAY, 1961.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

## GLASGOW CITY.

ASSISTANT ARCHITECTS.

The Architectural and Planning Department has a number of vacancies for qualified ASSISTANT ARCHITECTS.

The Department has in hand a large, varied and interesting programme of work, including Comprehensive Redevelopment, Multi-Storey Flats, Schools and Civic Buildings. The work will provide scope for personal initiative in the preparation of designs and details of schemes upon which construction work will follow.

The salary scale for these assistantships is up to £1,560 with placing according to experience.

A five-day week is in operation.

Advances up to 100 per cent of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow, by successful applicants.

Form of application may be obtained from the Principal Administrative Officer, 20 Trongate, Glasgow, C.1.

A. G. JURY,
City Architect and Director of Planning.

## DEWSBURY
COUNTY BOROUGH.

APPOINTMENT OF BOROUGH ARCHITECT AND BUILDINGS SURVEYOR.

Applications are invited from members of the Royal Institute of British Architects for the appointment of BOROUGH ARCHITECT AND BUILDINGS SURVEYOR at the commencing salary of £2,025 rising by annual increments of £75 to £2,325, with a car allowance of £112 6s. per annum. Housing accommodation will be made available for the successful applicant if required.

Further particulars and conditions of appointment can be obtained from the undersigned by whom applications must be received not later than the 27th MAY, 1961.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
3rd May, 1961.

## HAMPSHIRE
COUNTY COUNCIL.

ASSISTANT ELECTRICAL ENGINEER (A.P.T. III, £960-£1,140) required for pensionable post in County Architect's Department. Candidates should possess the High National Certificate in Electrical Engineering or be otherwise suitably qualified and have had considerable experience in the design of electrical installation in schools and public buildings, preferably in the office of a Local Authority. Assistance with removal and other expenses. Five-day week. Canteen facilities.

Application Forms, returnable by 31st MAY, from the Clerk of the County Council, The Castle, Winchester.

TRUSTEEL AND THE ENTERPRISING BUILDER

# TRADITIONAL TYPE DWELLINGS

yet you can ...

# ... WORK ANYWHERE ON THE STRUCTURE 12 HOURS AFTER COMPLETING FOUNDATIONS

The Trusteel frame system offers enterprising builders many advantages. Not least is better use of labour and the ability to improve site management. With the steel frame erected "bottlenecking" of trades can be avoided, weather losses drastically reduced, and delays generally eliminated. The results are superior homes of first-class sales appeal, modern in design, entirely similar in appearance to "traditional" construction—and an overall saving of *at least* 10% in costs.

***CONSIDER these advantages in the face of high land prices, increasing labour and materials costs (and often scarcity)—***

**HALF** normal time for completions

**40%** saved on labour

**50%** reduced consumption of bricks

**50%-90%** less structural timber

**CAPITAL** turned over far more quickly

**YOU CAN SEE FOR YOURSELF—**

We say Better, Quicker, Cheaper. But YOU can SEE Trusteel dwellings that have been up for over 15 years, you can SEE sites currently being worked, you can TALK to builders using the system. Wherever you are we can arrange for you to *see* for yourself.

**IT IS MUCH MORE PROFITABLE TO BUILD TRUSTEEL**

**MORE AND MORE ENTERPRISING BUILDERS PROGRESS WITH**

# TRUSTEEL

***The Building System of the 'Sixties!***

*Super Service!*

**Trusteel provides a ready selection of over 40 types of Houses, Bungalows and Chalets catering for all sections of the market. "Specials" can be designed for individual estate use—in conjunction with your own Architect, if desired. Site survey, layout and planning applications can be handled for you if required. Frames are simple to erect with normal site labour and a Trusteel supervisor attends the site to give advice and help.**

THIS COUPON will swiftly bring you full information and designs of Houses, Bungalows and Chalets. POST IT WHILE YOU THINK OF IT!

*Please send illustrated TRUSTEEL Brochure and type plans.*

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ADDRESS : .....

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*Site photograph at top right reproduced by courtesy of Messrs. Brading & Blundell, Builders, Shanklin, I.O.W.*

## POPLAR
METROPOLITAN BOROUGH.

ASSISTANT ARCHITECTS (full-time or part-time) required by Poplar Borough Council for immediate appointment. Salary scale A.P.T. III-IV (£960-£1,140 p.a.; £1,140-£1,310 p.a. plus £45 p.a. "weighting"). Commencing salary according to qualifications and experience. Projects include multi-storey flats and maisonettes, etc., in redevelopment areas, and municipal buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3.

## SHROPSHIRE.

ARCHITECTS are required in the County Architect's Department to work on projects ranging from the design of the New Shirehall (£1,000,000) to new Schools, Welfare, Police and other public buildings. Salary Grades A.P.T. V (maximum £1,480) and A.P.T. IV (maximum £1,310). Qualified staff who feel they can make a contribution to one or more of these aspects of the Department's work are invited to apply for the necessary forms to Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury, stating the post to be applied for. A disturbance allowance or weekly separation allowance will be paid to married men taking up the appointments.

Closing date for applications: 6th JUNE, 1961.

## BERKSHIRE
ROYAL COUNTY.

CLERK OF WORKS to supervise the erection of a new secondary modern school at Little Heath, Tilehurst, near Reading. Salary 17 guineas per week.

The probable duration of the work is 18 months. Candidates must have had practical experience on large building contracts.

Preference will be given to those who have supervised the erection of new schools.

Application forms and further particulars can be obtained from the County Architect, Wilton House, Parkside-road, Reading.

The return date is the 30th MAY, 1961.

## CARDIFF CITY.

CITY SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons for the vacant position of:

BUILDING ESTIMATING AND COSTS ASSISTANT (DIRECT LABOUR), A.P.T. Grade II-III (£815-£1,140).

General Conditions of Appointment may be obtained from the undersigned, to whom should be sent all applications in envelopes suitably endorsed, stating age, qualifications and experience, and names and addresses of three referees. Closing date 31st MAY.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

## SOUTH SHIELDS
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of SENIOR PRINCIPAL ASSISTANT QUANTITY SURVEYOR in accordance with J.N.C. Scale A up to £1,565 according to experience.

Applicants must have passed the Final Examination (Quantity Surveying Section) of the Royal Institution of Chartered Surveyors.

Housing accommodation will be made available to successful applicants if necessary and they will be required to pass a medical examination for Superannuation purposes.

Application forms are obtainable from the Borough Engineer, Town Hall, South Shields, and should be returned to him not later than 10 a.m., 5th JUNE, 1961.

R. S. YOUNG,
Town Clerk.

## WILLESDEN
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Building Surveyor's Section:

(a) GENERAL ASSISTANTS (2 posts) within Grade A.P.T. II (£815-£960 p.a.).

(b) GENERAL ASSISTANT within Grade A.P.T. I (£645-£815 p.a.).

London Weighting is payable in addition to both above salaries.

Applicants should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors or equivalent and have had experience in the general work of a Building Surveyor's Office and the administration of Building By-laws and the Town Planning Acts. For one of the (a) posts experience of dealing with the control of advertisements will be an advantage.

The Council are unable to assist with housing accommodation.

Details and form of application obtainable from the Borough Engineer, Town Hall, Dyne-road, Kilburn, N.W.6, and must be returned by 10 a.m. on MONDAY, 29th MAY, 1961.

R. S. FORSTER,
Town Clerk.

## SPALDING
RURAL DISTRICT COUNCIL.

HOUSING MAINTENANCE ASSISTANT.

Applications are invited for the ABOVE APPOINTMENT. Salary Grade Miscellaneous VI (£760-£825 per annum). Superannuation. Medical examination.

Candidates should have had experience as a general foreman, and preferably be a bricklayer or carpenter, and must be able to drive a motor vehicle provided by the Council.

The duties will consist mainly of the maintenance of 1,800 Council Houses by direct labour, together with improvement work to pre-war houses.

House on rental provided at the Council's Depot.

Applications, in writing, giving details of experience and the names of two referees to the Clerk of the Council, Priory-road, Spalding, by 27th MAY, 1961.

G. S. ASHWORTH,
Clerk of the Council.

## BOOTLE
COUNTY BOROUGH.

BOROUGH SURVEYOR'S DEPARTMENT.
(PUBLIC WORKS SECTION.)

Applications are invited for the undermentioned appointments. The Public Works Section carries out work comprising New Buildings, Building Maintenance, Highways, Sewers, Public Cleansing, Street Lighting and Motor Vehicle operation.

(A) DEPUTY WORKS SUPERINTENDENT, A.P.T. Grade III/IV (£960-£1,310 p.a.).

The person appointed in addition to having experience of site organisation and control of men should also have considerable experience of Builders' Quantities and office organisation. He will be responsible to the Works Superintendent for estimating for competitive tendering, valuations of work, cost control and final accounts and the installation and operation of bonus schemes.

The commencing salary will be within the Grade range stated above, depending on qualifications and experience.

(B) ASSISTANT WORKS SUPERINTENDENT, A.P.T. Grade III (£960-£1,140 p.a.).

The person appointed must have had extensive experience in site organisation, operational planning and programming and taking off materials required for large building projects. He will be required to work under the Works Superintendent in conjunction with the various Foremen in effecting maximum supervision of works in progress and initiating new methods of working. He must be experienced in the control of men of all trades and have a good all round knowledge of building trade works.

(C) CHIEF STOREKEEPER, Grade Misc. VI (£760-£825 p.a.).

The person appointed will be responsible to the Works Superintendent for the custody, issue and replenishment of the General Stores including building and electrical trades and for maintaining Stores Records, etc. He should be fully experienced in stores organisation and in the duties involved.

Application Forms from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., are returnable by MONDAY, 5th JUNE, 1961.

HAROLD PARTINGTON,
Town Clerk.

## HARROW
BOROUGH.

Applications are invited for appointments on the Architectural Staff of the Borough Engineer's Department which is engaged on a varied programme of municipal building schemes, including minor works to schools and is also responsible for all building maintenance.

(a) DEPUTY CHIEF ASSISTANT ARCHITECT, J.N.C. "B" (£1,417-£1,670 p.a.). Must be fully qualified and experienced in the organisation and direction of such works.

(b) PRINCIPAL ARCHITECTURAL ASSISTANT, A.P.T. V (£1,310-£1,480 p.a. plus London "Weighting").

Must be fully qualified and experienced to act as a group leader in the design and execution of new building works.

(c) SENIOR TECHNICAL ASSISTANT, A.P.T. IV (£1,140-£1,310 p.a. plus London "Weighting").

Must be suitably qualified and will assist in school maintenance works.

(d) ARCHITECTURAL ASSISTANT, A.P.T. III/IV* (£960-£1,310 p.a. plus London "Weighting").

*Note: Commencing salaries will be in accordance with qualifications and experience, but in the case of appointment (d), applicants will not proceed beyond the maximum of A.P.T. III until fully qualified.

The Council may be able to help with housing accommodation in the light of the applicant's circumstances. A contribution towards removal expenses will be considered.

The appointments are subject to the Local Government Superannuation Acts and to the appropriate National Schemes of Conditions of Service.

Forms of application may be obtained from me and must be returned not later than FRIDAY, 26th MAY, 1961.

DAVID PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
Harrow.

## SURREY COUNTY COUNCIL

Applications invited for appointment of

# ASSISTANT ARCHITECTS

on GRADE V (£1,310—£1,480 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A. and capable of leading a small team dealing with medium and large scale contracts.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Approved removal expenses will be paid to successful candidates.

Full details, present salary and three copy testimonials, preferably one from present employer, to—

**County Architect,**
**County Hall, Kingston,**

as soon as possible.

# ASSISTANT QUANTITY SURVEYORS

required by

**MINISTRY OF EDUCATION**
**ADMIRALTY**
**WAR OFFICE**
**AIR MINISTRY**
**MINISTRY OF WORKS**

Posts in London, Provinces and overseas. London Salaries for suitably qualified and experienced men up to £1,412 p.a. Prospects of promotion and pensionable status. Write for particulars of vacancies in each Department and forms, quoting J.Q.S., to **Ministry of Labour, Technical and Scientific Register (Room 403), 26, King Street, London, S.W.1.**

## WEST HAM
COUNTY BOROUGH.

Applications invited for position of CHIEF ASSISTANT PLANNING OFFICER, J.N.C. Scale "C"—£1,560-£1,825 p.a., plus essential car allowance. Applicants should hold a recognised qualification in Town Planning and preferably an associated professional qualification and should be experienced in all aspects of urban planning, including statutory requirements of a Local Planning Authority. A vast quantity of redevelopment work is in hand leading to urban renewal schemes and town centre redevelopment proposals.

An ASSISTANT PLANNING OFFICER, A.P.T. IV—£1,140-£1,310 p.a., plus London Allowance, and a PLANNING ASSISTANT, A.P.T. I-III—£645-£1,140 p.a., plus London allowance, are also required, and suitably qualified applicants are invited to apply.

Applications, stating age, qualifications and experience (together with names of two referees), to be addressed to the Borough Architect and Planning Officer, 70 West Ham-lane, Stratford, E.15, by 30th MAY, 1961.

## LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
VOLUNTARY SCHOOLS SECTION.

ARCHITECTS, Grade III, £830-£1,250.

ARCHITECTURAL ASSISTANTS, £720-£960.

BUILDING SURVEYORS, £720-£960.

The work of this section consists of technical examination at all stages of all development proposals for 400 Church schools, Grammar schools and Polytechnics and the preparation of schemes and carrying out building works in connection with school meals accommodation, schoolkeepers' houses and buildings at playing fields. Architects and Architectural Assistants with some knowledge of school planning are required for this work.

The section is also responsible for maintenance works at these schools for which Building Surveyors with experience in maintenance works are required.

Starting salary for all appointments in accordance with qualifications and experience.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/1226/Sa), County Hall, S.E.1.

## NOTTINGHAM
NO. 4 HOSPITAL MANAGEMENT COMMITTEE.

SAXONDALE HOSPITAL, RADCLIFFE-ON-TRENT, NOTTINGHAM.
WORKS ASSISTANT.

Applications are invited for the above post in the Group Building Supervisor's Office. Applicants should have building experience either as an architectural student or as a trained craftsman and should be in possession of or studying for the O.N.C. and/or City and Guilds Certificate.

This post offers excellent experience and opportunities for someone desirous of obtaining a higher post in this section of Hospital service.

Salary at age 26 or above £590 x £25 (4) -£690 per annum. The commencing salary is abated by £25 per annum for each year under age 26.

Applications, stating age, qualifications, experience, together with the names and addresses of two referees, should be sent to the Group Secretary from whom further particulars of the post may be obtained.

## PETERLEE
DEVELOPMENT CORPORATION.

CHIEF QUANTITY SURVEYOR'S DEPARTMENT.
APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointment on the Corporation's Salary Grade A.P.T. V (£1,310-£1,480).

Applicants must have passed or be awaiting the result of the final examination of the Royal Institution of Chartered Surveyors and be capable of preparing bills of quantities, estimates, final accounts and supervising junior staff.

The appointment is superannuable and subject to the Corporation's Staff Rules and Conditions of Service, and will be terminable by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination.

Housing accommodation will be available if necessary.

Applications, stating age, experience, qualifications and giving the names of two persons to whom reference can be made should reach the undersigned not later than MONDAY, 5th JUNE, 1961.

A. V. WILLIAMS,
General Manager.

Shotton Hall,
Peterlee,
Co. Durham.

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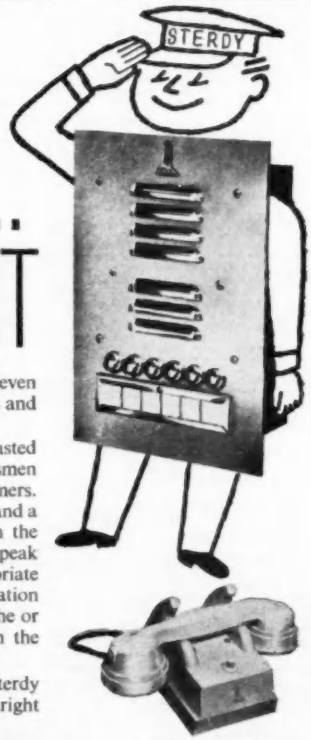
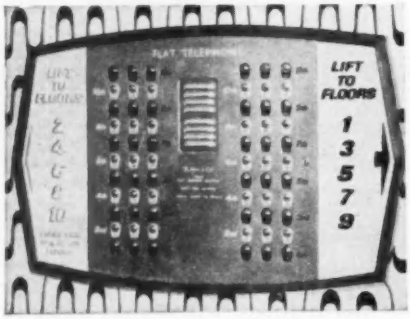
# PUSH BUTTON PORTER SERVICE... AT BECKETT COURT




The Sterdy Master Telephone Station installed at Beckett Court, the eleven storey block of council flats recently completed at Bedford, cuts lift bills and enables tenants to deal with callers without leaving their flats.

This revolutionary system can save time and money otherwise spent in wasted lift journeys and in addition enables tenants to order goods from tradesmen who initially need not leave the entrance hall when contacting their customers.

The installation consists of a two-way speaker and a call button for each flat, which connects with the tenant's substation phone. If a caller wishes to speak to the occupant of a flat he presses the appropriate button—this sounds the buzzer on the substation phone. When the tenant picks up the 'phone he or she can hold a conversation with the caller in the entrance hall.




For further details of this and other Sterdy Porter Systems—available for hire or outright purchase—write for illustrated brochure.

**STERDY TELEPHONES LIMITED**

*(Incorporating W. C. Davey & Co.)*

**PIONEERS IN SPECIALISED COMMUNICATIONS**

Queen's House, 180-182, Tottenham Court Road, London, W.1
Telephone: MUSeum 4414, 4415 and 6388

AP 80

## SCOTTISH
SPECIAL HOUSING ASSOCIATION LTD.

ARCHITECTURAL DIVISION.
APPOINTMENT OF ARCHITECTS.

Applications are invited from qualified Architects for the following appointments on the permanent staff:

ARCHITECTS, Grade I. Salary Scale £1,325-£1,575;

ARCHITECTS, Grade II. Salary Scale £895-£1,385.

The posts are superannuable under the Local Government Superannuation Acts, and placing will be related to experience.

The Association is a Government sponsored and financed body, providing houses and flats throughout Scotland as directed by the Secretary of State.

The Association has at present a large and interesting programme comprising a number of major housing projects, including central redevelopment in Glasgow and other towns, together with an important programme of work in connection with Glasgow's "Overspill." Designs for mixed development layouts, including multi-storey blocks of flats up to 26 storeys in height, are being prepared, and cost analysis techniques are being used in the preparation of drawings. The posts advertised offer considerable valuable experience and opportunities for persons interested in civic design, landscaping and three dimensional planning of urban developments.

The Headquarters of the Association are in Edinburgh where housing accommodation could be provided if required.

Application Forms with full details of the appointments from Harold E. Buteux, A.R.I.B.A., A.M.T.P.I., A.R.I.A.S., Chief Technical Officer, Scottish Special Housing Association Ltd., 15-21 Palmerston-place, Edinburgh, 12.

## WILLESDEN
BOROUGH.

Applications are invited for the appointments in the Building Works Section of the Borough Engineer's Department:

TWO TECHNICAL ASSISTANTS. Salary within Grade A.P.T. II (£815-£960 p.a.) plus London Weighting.

There is no age limit but candidates for one of the posts should have had experience in bonus surveying for new buildings, including measurement and agreeing targets, and for the other post experience in estimating for maintenance repairs and conversions.

Full details and application forms obtainable from the Borough Engineer, Town Hall, Dyne-road, Kilburn, N.W.6, to be returned by 10 a.m. on MONDAY, 29th MAY, 1961.

(Signed) R. S. FORSTER,
Town Clerk.

## OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.
SURVEYING ASSISTANT
(Housing Management Section).

Applications are invited for the above post at a salary in accordance with the range of A.P.T. I/III (£645-£1,140) depending upon qualifications. Starting salary will be determined by qualifications and experience.

Car allowance on the Council's casual user scale. Housing accommodation will be provided for a married person.

Further details, terms and conditions of appointment and application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford, to whom application forms should be returned not later than the 12th JUNE, 1961.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

## KINGSTON-UPON-THAMES
ROYAL BOROUGH.

APPOINTMENT OF
ARCHITECTURAL ASSISTANT.
(A.P.T. Grade II, £815-£960 per annum plus London Weighting.)

Applications are invited for the above-mentioned appointment. Details and application forms obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 31st MAY, 1961.

L. V. POWELL,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
9th May, 1961.

## ARCHITECTS AND MAINTENANCE SURVEYORS.

Pensionable posts for men and women at least 25 and under 35 on 1st January, 1961 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate Membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate Membership. National salary, £936-£1,258, according to age, rising to £1,430. Promotion prospects. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form quoting **S/60-61.**

## LANCASTER CITY.

APPOINTMENT OF CITY ARCHITECT.

Applications are invited for the ABOVE APPOINTMENT. Salary Scale £2,170 x four increments of £75—£2,470. This is the maximum salary scale within the Joint Negotiating Committee's Scales.

Applicants must be Corporate members of the Royal Institute of British Architects and preferably also of the Town Planning Institute.

This is a first appointment of a Chief Officer for the Architectural Department, and the Council are seeking a person of wide experience of architectural design. Experience of central area redevelopment will be of great value.

Further particulars and conditions of appointment are obtainable from the undersigned.

Last date for receipt of applications 26th MAY, 1961.

J. D. WADDELL,
Town Clerk.

Town Hall,
Lancaster.
3rd May, 1961.

## OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.
SURVEYING ASSISTANT.

Applications are invited for the above post, to assist in the general work of estates management and property purchases for various Municipal purposes.

Applicants should have passed the Intermediate examination of the Royal Institute of Chartered Surveyors or the Chartered Auctioneers and Estate Agents Institute.

Commencing salary within the range £645 per annum-£815 per annum with progression on final qualification to Grade III A.P.T. Division (£960-£1,140 per annum).

Car allowance will be granted on the Council's Casual User Scale and suitable housing accommodation will be provided, if required. Financial assistance and facilities for study to final qualification are available. Five-day week.

The appointment will be subject to the National Conditions of Service and the successful candidate will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 12th JUNE, 1961.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

## CUMBERNAULD NEW TOWN
## ARCHITECTS
**APT. VI-VII £1,305-1,670**
**APT. III-IV £960-1,310**

## ARCHITECT-PLANNERS
**APT. IV-V £1,140-1,480**

are required in the office of the Chief Architect and Planning Officer, L. Hugh Wilson, Esq., O.B.E., F.R.I.B.A., A.M.T.P.I., for a wide variety of work, including:

CENTRAL AREA, a comprehensive multi-level structure with roads and car parking at ground level and pedestrian decks above.

HOUSING of all types based on vehicular-pedestrian separation at high density and including:

HIGH FLAT BLOCKS

INDUSTRY

5-day week. Assistance with housing where appropriate. Local Government Superannuation.

Applications by May 29th from qualified persons on form to be obtained from the General Manager, **Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Glasgow.**

## LEYTON
BOROUGH
(in the County of Essex).

APPOINTMENT OF
JUNIOR ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £645-£815 per annum plus London Weighting. The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.

Details and form of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned within 14 days from the appearance of this advertisement.

## ADMINISTRATION OF THE COUNTY OF KENT.

## COUNTY ARCHITECT'S DEPARTMENT.

INVICTA

Re-organisation of technical groups in this office affords opportunities for the following:—

Group Working.

Modern Offices.

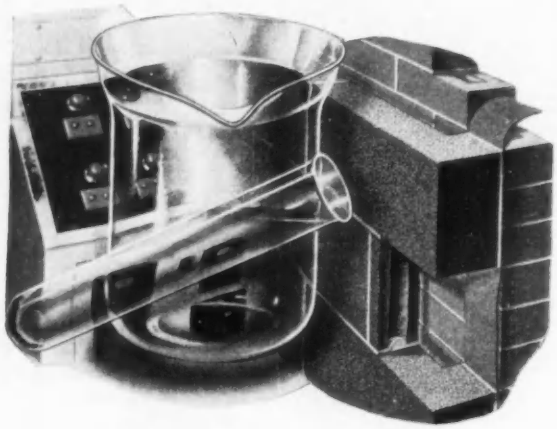
Large and Varied Programmes.

| | |
|---|---|
| Architects | £960 to £1,140<br>£1,140 to £1,310<br>£1,310 to £1,480 |
| Engineers (Electrical) | £1,140 to £1,310<br>£1,310 to £1,480 |
| Quantity Surveyors | £1,140 to £1,310<br>£1,310 to £1,480 |
| Land Surveyors | £960 to £1,140<br>£1,140 to £1,310 |
| Fittings and Furnishings Designer | £1,140 to £1,310 |

All applications to be sent, together with particulars of qualifications, experience and salary expected to:—

E. T. Ashley Smith, F.R.I.B.A., County Architect, Springfield, Maidstone, Kent.

# Everything



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★ High Quality
*Laboratory control*

★ Low Cost
*Quicker building*

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*Built-in warmth*

★ Loadbearing
*of course*

★ Reveal Blocks
*and Coursing blocks too*

★ Cutting Slots
*for quick and easy cutting*

★ Delivery
*ex-stock*

**... the Broad - Acheson Block has.**

*The new Technical Brochure is worth having—*
*a copy will be sent on request*

BROADS

**BROAD & CO., LTD.**
**4 SOUTH WHARF, PADDINGTON, LONDON W.2**
**Telephone: PADdington 7061(20 lines)**


## BRIGHTON
COUNTY BOROUGH.

CLERKS OF WORKS.

Applications are invited for the following appointments in the Borough Surveyor's Department :—

(a) CLERK OF WORKS at a salary in accordance with Miscellaneous Grade VI, £760-£825 per annum ;

(b) CLERK OF WORKS at a salary of £825-£875 per annum.

Applicants must have had wide experience in the supervision of reinforced concrete work and general building work, and preferably have served apprenticeship as carpenter or bricklayer.

The appointments will be subject to the Conditions of Service and Salary Scales of the National Joint Council and to the provisions of the Local Government Superannuation Acts 1937-1953.

The successful applicants will be required to pass a medical examination and the appointments will be subject to one month's notice on either side.

The Corporation will refund 50 per cent. of the successful candidates' removal expenses.

Canvassing will disqualify.

Applications should be sent to D. J. Howe, M.I.C.E., M.I.Mun.E., Borough Surveyor, Engineer and Planning Officer, 26-30 King's-road, Brighton, by NOON on FRIDAY, 26th MAY, 1961.

W. O. DODD,
Town Clerk.

## LEYTON
BOROUGH
(in the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. III, £960-£1,140 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned within fourteen days from the appearance of this advertisement.

## RICHMOND (SURREY)
BOROUGH.

TECHNICAL ASSISTANT required for duties under Clean Air Act 1956 (Smoke Control Areas); Salary £855-£1,000 per annum; superannuation scheme; knowledge of building construction essential (Clerk of Works, or equal qualification preferred).

Applications in writing to Medical Officer of Health, Public Health Department, Parkshot, Richmond, Surrey, not later than the 27th MAY, 1961.

CLIFFORD HEYWORTH,
Town Clerk.

Town Hall,
Richmond,
Surrey.

## OXFORD
REGIONAL HOSPITAL BOARD.

APPOINTMENT OF
CLERK OF WORKS.

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS to supervise the building of the first stage of the Development of the Borocourt Hospital, Oxfordshire (approximate cost £130,000). (With possibility of continuing on Stage II, estimated cost £700,000.)

The duration of the contract for Stage I will be approximately 1½ years.

Salary within the scale £800 x £40 (5) x £50 (1)—£1,050 p.a.

Applications, stating age, qualifications, previous experience, present appointment and date when available, together with the names of two referees, should reach the Secretary, Oxford Regional Hospital Board, 43 Banbury-road, Oxford, not later than 5th JUNE, 1961.

## METROPOLITAN POLICE

RECEIVER'S OFFICE
requires
ASSISTANT SURVEYORS
for work in connection with the maintenance and alteration of all types of Police buildings and of Magistrates' Courts within the Metropolitan Police District.

Salary £991 per annum at age 25, rising by annual increments to £1,490 per annum. (Maximum salary on entry £1,318 per annum at age 34 or over.)

Qualifications: Applicants must be Registered Architects or have achieved Corporate membership of R.I.C.S. (Building Surveying Section).

Apply to Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, London, S.W.1.

## NORTHAMPTON
COUNTY BOROUGH.

DEPUTY BOROUGH ARCHITECT AND TOWN PLANNING OFFICER.
SCALE: £1,646-£1,896.

Full particulars of this appointment and form of application, returnable by 5th JUNE, from Borough Architect and Town Planning Officer, Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

## CLERK OF WORKS — NORTH WALES

### WELSH HOSPITAL BOARD
### ARCHITECT'S DIVISION

Applications are invited for the post of CLERK OF WORKS on the permanent staff of the Regional Architect's Division.

The successful applicant will be required to reside in North Wales and to supervise works in progress.

Applicants should have served a recognised apprenticeship to one of the building trades, and should have a sound knowledge of building construction. He should be competent in the interpretation of Architect's drawings and specifications, the setting out of works, and keeping of records. Good experience in general building works is essential as a foreman or Clerk of Works, and a good working knowledge of reinforced concrete construction would be an advantage.

The possession of a car is desirable and a mileage allowance will be paid for all official journeys.

**Salary : £800 x £40 (5) x £50 (1)-£1,050 per annum.**

The post is superannuated. New Entrants to the Health Service will commence at £800.

Applications, stating age, qualifications, experience, present position and salary, and previous positions held, together with the names of two referees, to be sent to the Secretary, **Temple of Peace and Health, Cathays Park Cardiff, within 14 days.**

## WEST HAM
COUNTY BOROUGH.

A vacancy exists for a GROUP ARCHITECT in the Borough Architect and Planning Officer's Department, J.N.C. Scale "B"—£1,485-£1,670 p.a., plus essential car allowance.

There are also a number of vacancies for SENIOR ASSISTANT ARCHITECTS, J.N.C. Scale "A"—£1,400-£1,565 p.a., and for ARCHITECTURAL ASSISTANTS, A.P.T. Grade IV-V—£1,140-£1,480 p.a., plus London Allowance.

An expanded programme of work, including numerous official buildings, Fire Stations, Primary and Secondary Schools, high density housing, and Town Centre Redevelopment Scheme, is on hand.

Applications, with details of qualifications and experience (together with names of two referees), to be addressed to the Borough Architect and Planning Officer, 70 West Ham-lane, Stratford, E.15, by 30th MAY, 1961.

## EXETER
CITY COUNCIL.

CITY ARCHITECT'S
DEPARTMENT.

THREE SENIOR ASSISTANT ARCHITECTS required on the established staff to work on an interesting and varied programme of local authority works.

Salary within A.P.T. Grade IV (£1,140 to £1,310), entry point on the grade depending on experience. PROVISION OF HOUSING ACCOMMODATION will be considered and removal expenses will be paid.

Applicants must be Associate members of the R.I.B.A. N.J.C. Conditions of Service. Successful candidates will be required to pass a medical examination.

Applications stating age, experience and qualifications, should be received by the City Architect, Municipal Offices, Exeter, not later than 29th MAY, 1961.

## NORTHAMPTON
COUNTY BOROUGH.

Applications are invited for the following appointments :

(1) TEMPORARY SENIOR ASSISTANT ARCHITECT, Lettered Grade "C" (£1,560-£1,825) for the building of new Municipal Offices and Shops adjoining the Guildhall, for a period of about three years.

(2) SENIOR ASSISTANT ARCHITECT, A.P.T. V (£1,310-£1,480) required in the first instance for new Municipal Offices.

(3) SENIOR ASSISTANT ARCHITECT, A.P.T. IV-V (£1,140-£1,480) for Education and General Section.

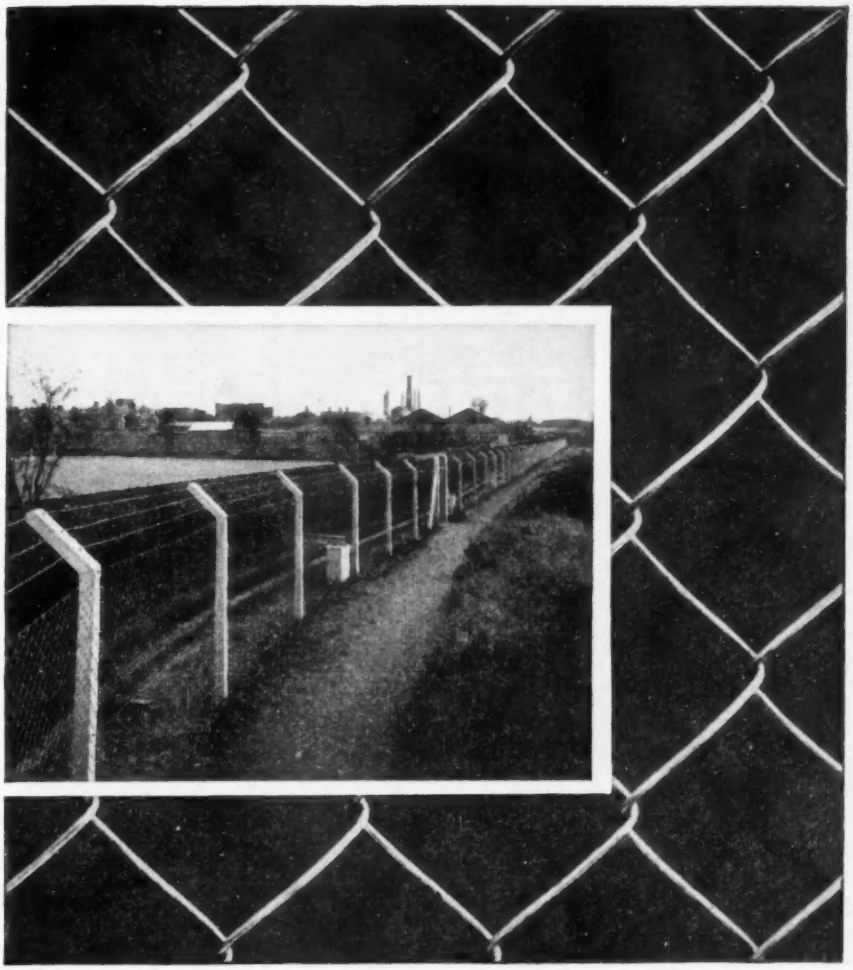
(4) TEMPORARY TOWN PLANNING ASSISTANT, A.P.T. IV-V (£1,140-£1,480) for review of the Development Plan.

(5) MAINTENANCE SURVEYOR, A.P.T. III (£960-£1,140).

Full particulars and application form, returnable by 5th JUNE, from Borough Architect and Town Planning Officer, Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

THE UNITED STEEL COMPANIES LTD



*Stainless steel chain link fencing erected at the works of Imperial Chemical Industries Ltd. at Runcorn and manufactured by Penfold Fencing & Engineering Ltd., Watford.*

# Yes!
## Fencing in stainless steel can be economical

Fencing in stainless steel lasts a long time—so long that we have not yet come across any that needed replacement. Use it in sea air and in heavily polluted atmospheres. Install it below ground level to restrict burrowing. Use it and re-use it. All the time it looks good and gives the security of a sound fence.

Take the planned life of your fence; then estimate how often during that life you would need to replace galvanised steel fencing because of corrosive decay, and what that replacement would cost. Under corrosive conditions and where the planned life of the fence is not very short, 'install and forget' stainless steel fencing will almost certainly be the better investment.

"SILVER FOX" STAINLESS STEEL
*Registered Trade Mark*

**samuel fox & company limited**

*A subsidiary of The United Steel Companies Limited*

STOCKSBRIDGE WORKS • SHEFFIELD

F.451

# SOMERSET

**County Architect — B.C. Adams, A.R.I.B.A.**

## Quantity Surveyors

*The reorganisation of the Quantity Surveying Section has been completed except for:*

**2 Quantity Surveyors A.P.T. III max. £1,140**

**1 Quantity Surveyor A.P.T. II max. £960**

These posts offer an opportunity to work on an interesting and varied programme, and should be of particular interest to successful candidates in the 1961 Final and Intermediate R.I.C.S. Examinations.

**Additional information can be obtained from F. P. Goodsman, A.R.I.C.S., the Chief Quantity Surveyor (Tel. Taunton 3451) and applications should be sent to the County Architect, The Crescent, Taunton, by 31st May, 1961.**

### WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
APPOINTMENT OF DEPUTY GROUP ENGINEER (ELECTRICAL).
GRADE "A" (£1,450-£1,565).

Applications are invited for the above appointment from persons who have had several years' experience in design, costing and handling large contracts for lighting, power and allied services. Applicants should be members of the Institute of Electrical Engineers or hold a comparable qualification.

The commencing salary can be within the grade according to ability and experience. Five-day week worked. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers. Application forms and full conditions applicable to the appointments can be obtained from ERIC DAVIES, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
May, 1961.

### DERBY
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) ASSISTANT ARCHITECT, A.P.T. Grade II (£815-£960 per annum). Qualifications: Intermediate R.I.B.A.

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade II (£815-£960 per annum). Qualifications: Intermediate R.I.C.S. or equivalent with good experience in working up Bills of Quantities and Final Accounts, measuring on site and taking-off for small works.

Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination.

National Conditions of Service.

Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street, Derby, not later than MONDAY, 5th JUNE, 1961.

N. S. FISHER,
Town Clerk.

15th May, 1961.

### HUNTINGDONSHIRE.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,140-£1,310).

Applicants must hold the A.R.I.B.A. qualification.

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£815-£960).

Application forms may be obtained from the County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by MONDAY, 5th JUNE, 1961.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

### SURREY
COUNTY COUNCIL.

Applications invited for CLERK OF WORKS on major building projects and maintenance. Salary range £16 19s. 2d.-£21 4s. p.w. according to ability and experience. Must have been properly trained as craftsmen. Application Forms from County Architect, County Hall, Kingston, to be returned to him by 26th MAY, 1961.

### LINDSEY (LINCOLNSHIRE)
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

North Lincolnshire is developing rapidly and the work in the Department is growing correspondingly and is of a most interesting nature. Vacancies exist for the following grades of ARCHITECTS/JUNIOR ASSISTANTS:—

(a) A.P.T. IV. Salary £1,140-£1,310.
(b) A.P.T. III-IV. Salary £960-£1,310.
(c) A.P.T. III. Salary £960-£1,140.
(d) A.P.T. I. Salary £645-£815.
(e) A vacancy also exists for ENGINEERING ASSISTANT (HEATING), A.P.T. III, £960-£1,140.

Commencing salary within the grade dependent upon qualifications and experience. Five-day week. Post entry training assistance for study. N.J.C. Conditions of Service. Canvassing will disqualify, and candidates must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications giving age, qualifications, experience, present post and salary, and names of two referees to be sent to me, County Architect, County Offices, Lincoln, for posts (a) to (d) by 6th JUNE; (e) by 21st JUNE, 1961.

### SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the permanent establishment of the Borough Engineer and Surveyor's Department:

ASSISTANT QUANTITY SURVEYOR: A.P.T. V (Commencing £1,355 to £1,525).

Candidates must be qualified and thoroughly experienced, capable of taking off quantities for large housing schemes, including multi-storey blocks of flats and of handling final accounts.

ASSISTANT QUANTITY SURVEYOR: A.P.T. IV (£1,185 to £1,355).

Candidates must be qualified and experienced for duties including taking off for housing schemes with multi-storey flats, preparing bills of quantities, specification and estimates.

The appointments are subject to the Council's Conditions of Service of Officers and Superannuation Scheme. Medical examination. No housing provided. Canvassing will disqualify. One Saturday in four. Canteen facilities.

Application forms are obtainable from the undersigned and must be returned by first post on 6th JUNE, 1961.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant and Castle Underground Station),
Walworth-road,
S.E.17.

### BATTERSEA
METROPOLITAN BOROUGH.

Applications are invited for the temporary appointment (for a minimum period of two years) of MEASURING ASSISTANT, Grade A.P.T. II, £815-£960 per annum plus London Weighting (£40 per annum at age 26 or over). Commencing salary will be according to qualifications and experience. Local Government experience is not essential.

The applicant must be conversant with incentive bonus schemes, experienced in target setting, measurement of building works in all trades and capable of preparing interim valuations.

Application forms and further particulars obtainable from Borough Engineer and Surveyor, Town Hall, Battersea, S.W.11. Closing date 5th JUNE, 1961.

C. M. W. S. FREEMAN,
Town Clerk.

### NORFOLK
EDUCATION COMMITTEE.

Applications are invited for the temporary appointment of CLERK OF WORKS, £16 5s. per week, for approximately two years in the first instance to supervise the building of the new Secondary Modern School at Caister-on-Sea.

The successful candidates will be required to reside for the period of the contract in or near Caister-on-Sea.

Applicants should have good general knowledge of building and be capable of supervising all branches of building trades, including specialist trades, heating installations and similar sub-contracts, and should have previous experience either as Clerk of Works or General Foreman on large contracts.

Application forms obtainable from the undersigned on receipt of a stamped addressed envelope.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich,
Norfolk.
NOR. 49A.

### NATIONAL COAL BOARD.

SENIOR ENGINEERING DRAUGHTSMAN (CIVIL).

The National Coal Board invite applications for the post of SENIOR ENGINEERING DRAUGHTSMAN (CIVIL) in their No. 2 (Maesteg) Area.

Candidates should have experience in reinforced concrete design and be able to undertake the preparation of specifications and contract drawings for Civil Engineering Works. The possession of a Higher National Certificate or equivalent qualification is essential.

Applications (quoting 288/43) should be sent to the Area Staff Manager, National Coal Board, No. 2 Area, Tondu, Aberkenfig, Bridgend, Glam, by 30th JUNE, 1961.

### SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the permanent establishment of the Borough Engineer and Surveyor's Department:

ASSISTANT ARCHITECT: Salary according to A.P.T. IV (£1,185 to £1,355), or A.P.T. V (Commencing £1,355 rising to £1,525) depending upon experience.

Candidates must be Associates of Royal Institute of British Architects with considerable experience and capable of leading a design team engaged upon a large and varied programme of schemes for housing development and public buildings.

TECHNICAL ASSISTANTS: A.P.T. I (£685 to £855) or A.P.T. II (£855 to £1,000), depending upon experience (£15 per annum less if under 26 years of age).

Two vacancies in design groups dealing with new housing and other schemes. Applicants should be experienced detailers and draughtsmen with considerable experience in an architect's office.

The appointments are subject to the Council's Conditions of Service of Officers and Superannuation Scheme. Medical examination. No housing provided. Canvassing will disqualify. One Saturday in four. Canteen facilities.

Application forms are obtainable from the undersigned and must be returned by first post on 6th JUNE, 1961.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant and Castle Underground Station),
Walworth-road,
S.E.17.

### MANCHESTER
CORPORATION.

DIRECT WORKS DEPARTMENT.

Applications for the undermentioned posts in the Technical and Planning Division are invited from those suitably qualified and experienced.

1. ESTIMATING SURVEYOR, A.P.T. III, £960-£1,140.

Taking off quantities and pricing for adaptations, preparing estimates on Bills of Quantities for new building projects also the preparation of final accounts and interim valuations.

2. ASSISTANT SURVEYOR, A.P.T. II, £815-£960.

As for (1) but under supervision. Should be technically qualified.

3. ASSISTANT SURVEYOR (MATERIALS), A.P.T. II, £815-£960.

Taking off, scheduling and progressing materials for major building contracts. A knowledge of estimating would be an advantage.

4. ASSISTANT SURVEYOR (INCENTIVES), A.P.T. I, £645-£815.

Experience in incentive schemes, formulating bonus targets, also having a working knowledge of estimating.

Five-day week, superannuation. Assistance with removal expenses and temporary housing accommodation may be provided.

Applications in writing, stating age, education, experience, qualifications and present salary or grading, to W. K. Wilson, Director of Works, 324 Deansgate, Manchester 3. Closing date 1st JUNE, 1961.

### CAMBERWELL
METROPOLITAN BOROUGH.

ASSISTANT BUILDING SURVEYOR, BOROUGH ARCHITECT'S DEPARTMENT.

Salary grade A.P.T. II (£855-£1,000 per annum inclusive of £40 London weighting). Duties mainly concerned with maintenance, conversion, improvement and modernisation of all types of municipal buildings. Preference given to those possessing Intermediate Examination of Royal Institute of Chartered Surveyors.

Application form from Town Clerk, Town Hall, S.E.5. Closing date MONDAY, 5th JUNE, 1961.

### LEEDS
REGIONAL HOSPITAL BOARD.

PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD.
CLERK OF WORKS (BUILDING AND STRUCTURAL).

Applications are invited for the appointment of CLERK OF WORKS (BUILDING AND STRUCTURAL), in connection with the construction of a new General Hospital at Huddersfield (500 beds; approximate total cost £3,500,000). Salary £1,200 per annum (under certain conditions this figure may be increased to provide a maximum of £1,350 p.a.).

The project is being carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. George Trew and Dunn, Private Architects. The main building contract has now been running for one year and building on the site will continue for another three years.

The Clerk of Works will have an Assistant Clerk of Works (Building) and a Clerk of Works (Mechanical and Electrical) to assist him in his duties.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Parkparade, Harrogate, by 31st MAY, 1961.

## OVERSEAS PUBLIC APPOINTMENTS

### GHANA
REPUBLIC.

Two contract posts for QUANTITY SURVEYORS are offered by the Ministry of Defence, Ghana. Successful applicants will be employed in the Works Services Division of the Ghana Army Engineers as civilian staff. Salary £2,080 p.a. with gratuity (payable at end of each tour) of £12 10s. per completed month of service.

Qualifications: Applicants to be Associates of the Royal Institution of Chartered Surveyors (Quantities Division), and should be between the ages of 25 and 35 years.

Appointment on contract for three years in the first instance comprising 18 months' first tour plus three months' paid leave and 15 months' tour with three months' paid leave. Travel will be by air (tourist class) or sea (first class) (including leave travel). Married quarters (if available) rent £90 p.a. Single accommodation £64 p.a. An interest free car loan up to £600 is available if required. Motor mileage allowance payable. Free medical treatment at Military Hospital.

Applications to the Director of Recruitment, Ghana High Commission, 248 Tottenham Court-road, London, W.1.

**ATTENTION ADVERTISERS**

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

# Picture of an unhappy man

*—and all because a heavy claim is not covered under his public liability policy. YOUR business could be placed in jeopardy by a loophole in this vital insurance protection.*

The PROVINCIAL PUBLIC LIABILITY INSURANCE POLICY for builders and allied trades now offers this special cover—

## INJURY, LOSS OR DAMAGE CAUSED BY:

1. fire, explosion, flood or water pollution.
2. the removal or weakening of support to land or property (damage limited to £10,000 any one occurrence).
3. the use of lifting appliances (other than passenger-carrying lifts, elevators or escalators) and the use of mechanically-propelled plant, except when a Road Traffic Act certificate is required.
4. the negligence of the builder's sub-contractors.
5. defects in goods or materials sold or supplied.

Also covered are :

6. loss by theft of customers' property due to the builder's negligence.
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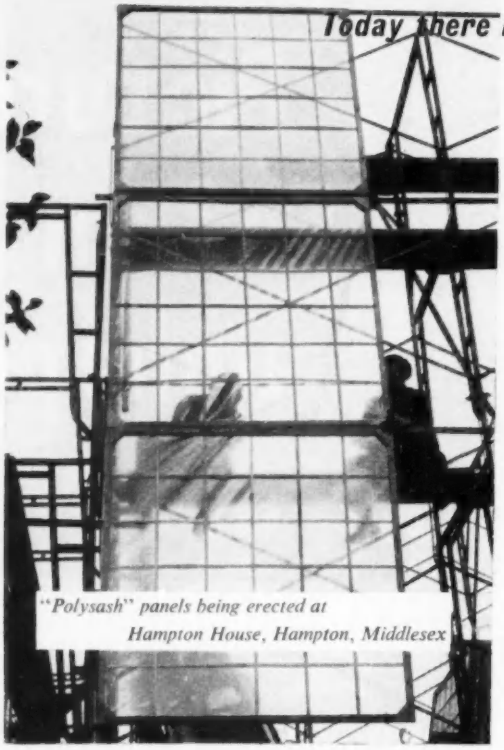

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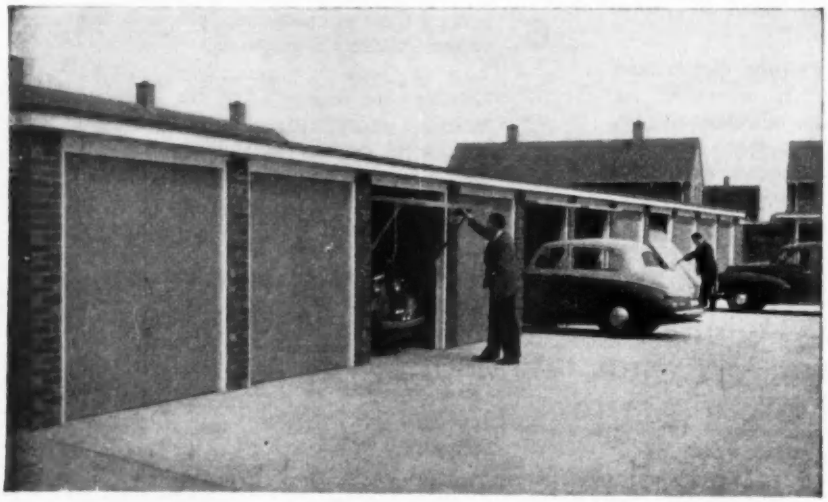

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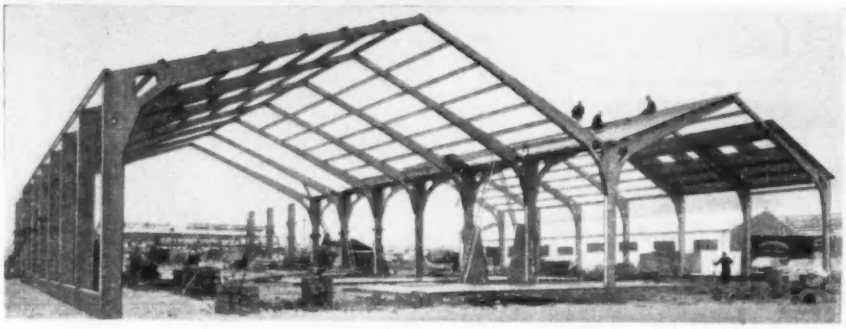

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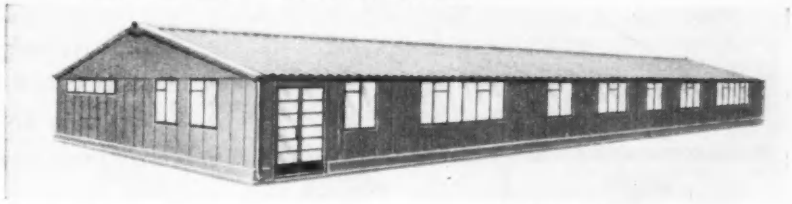

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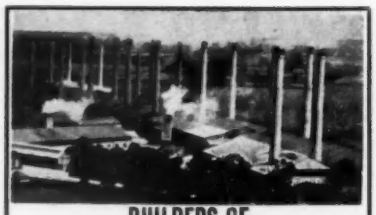
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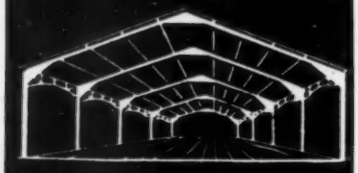
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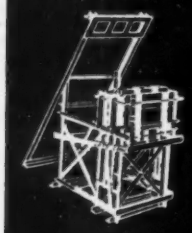
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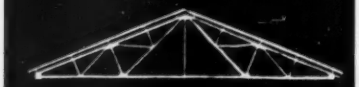
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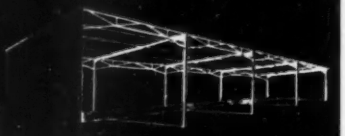
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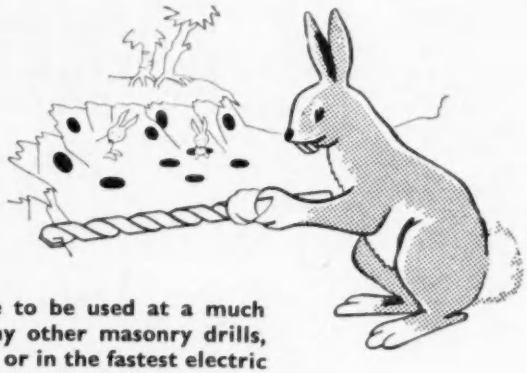

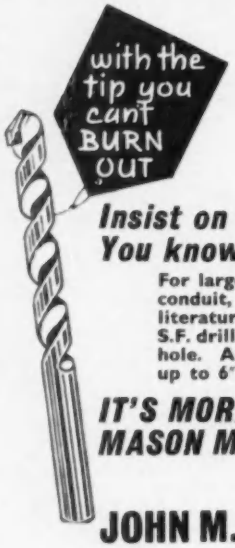


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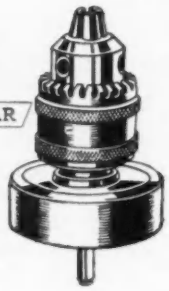

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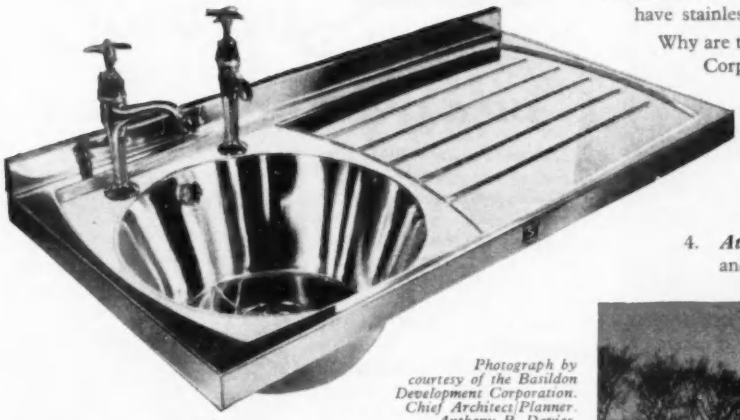

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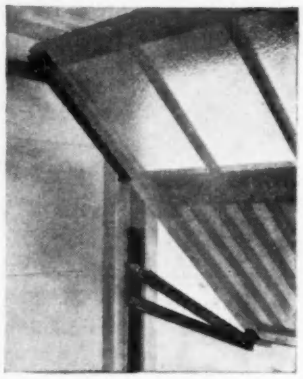

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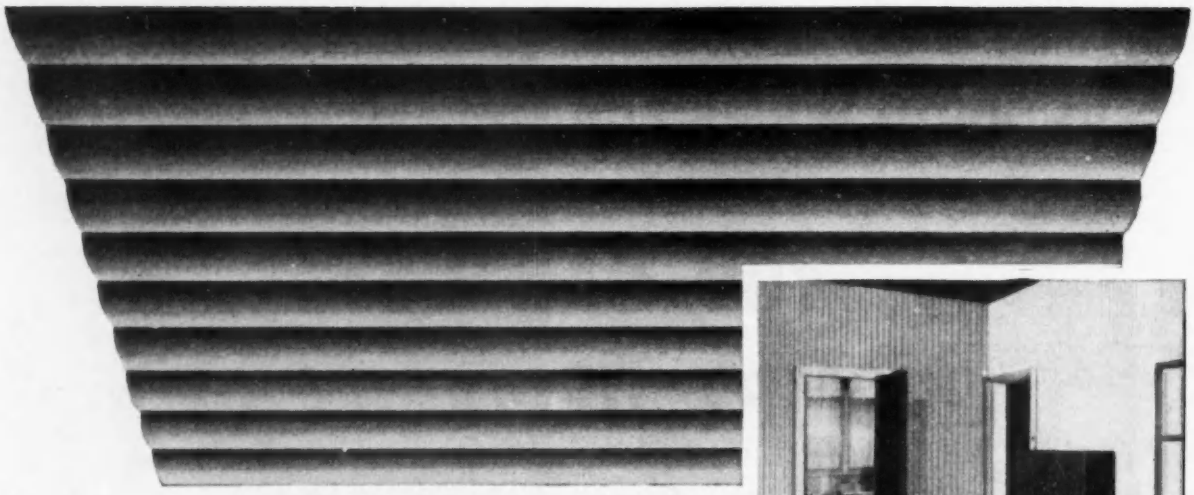

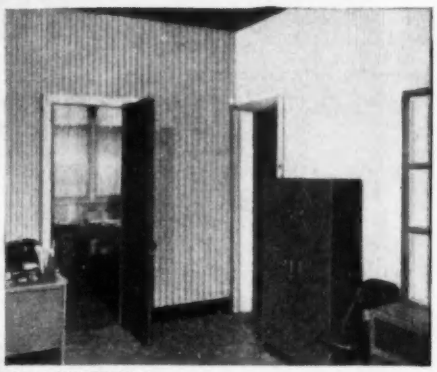

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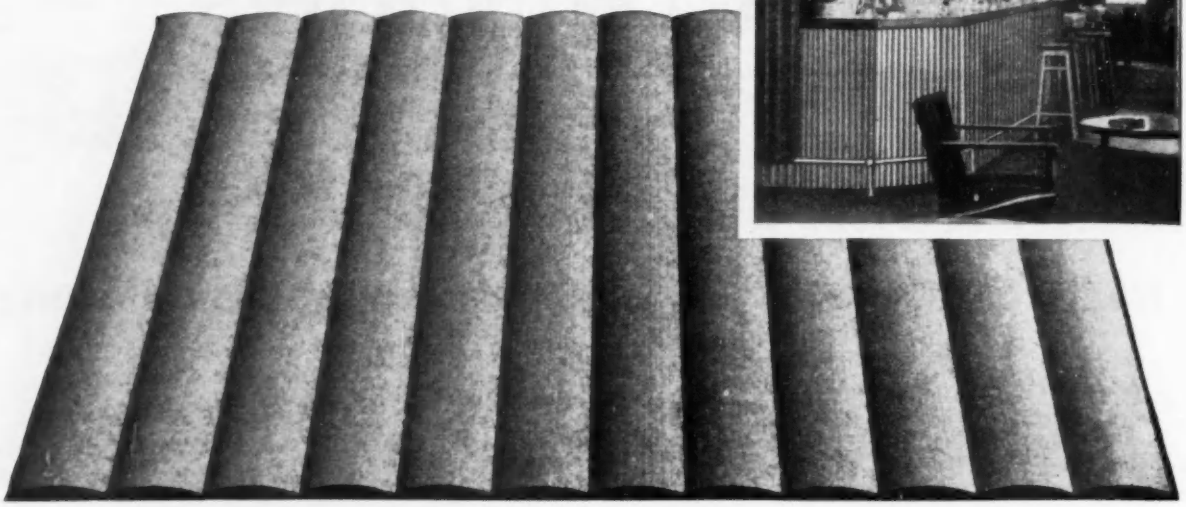

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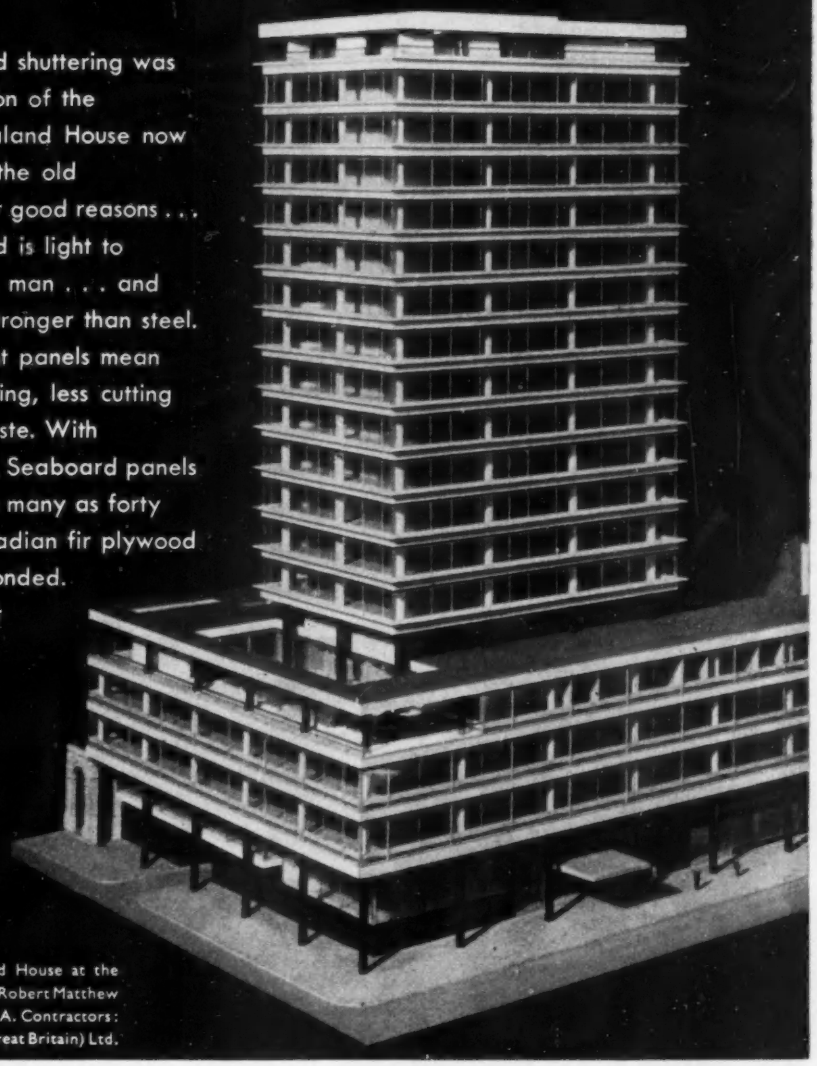

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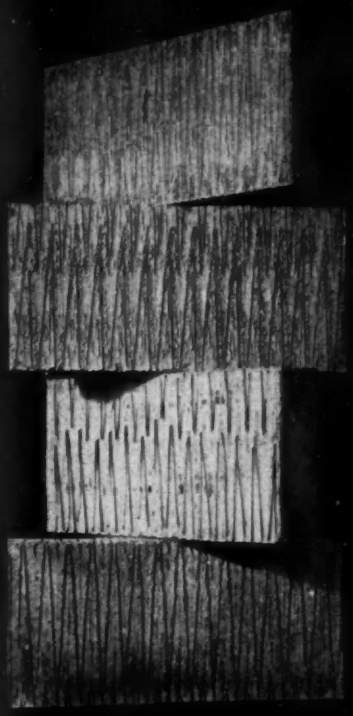

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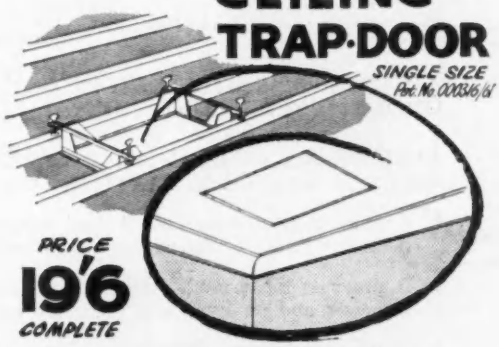

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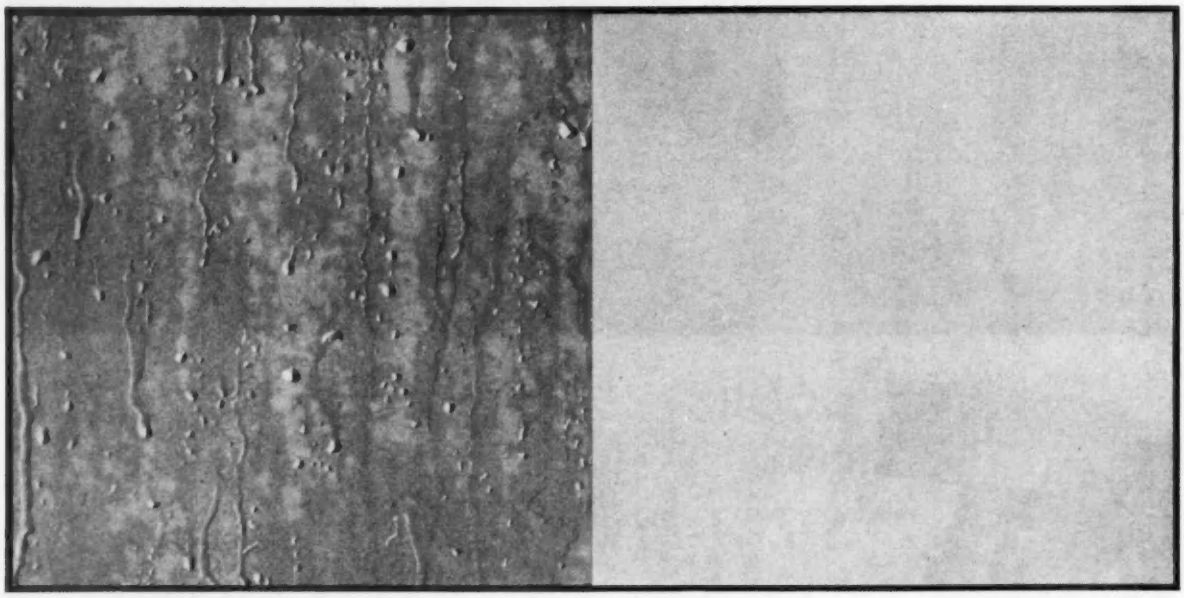

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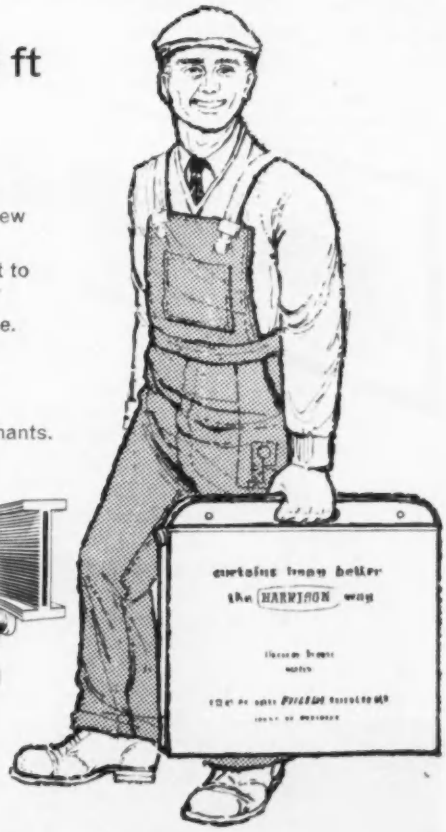


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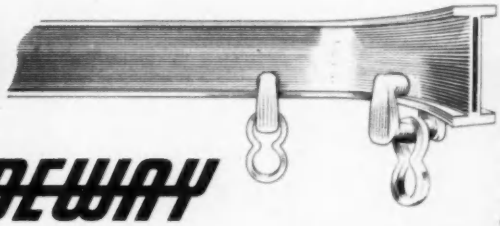

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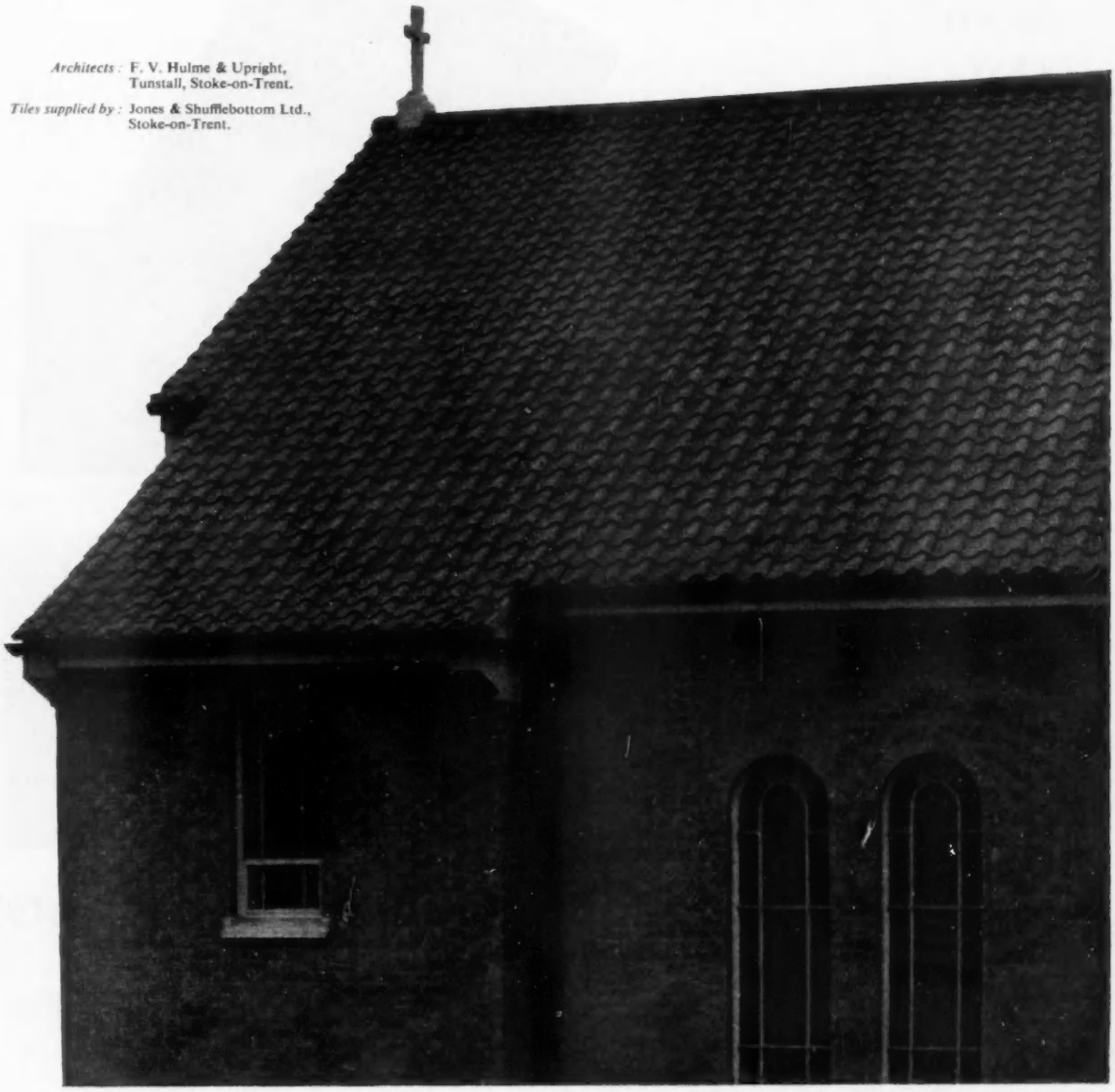

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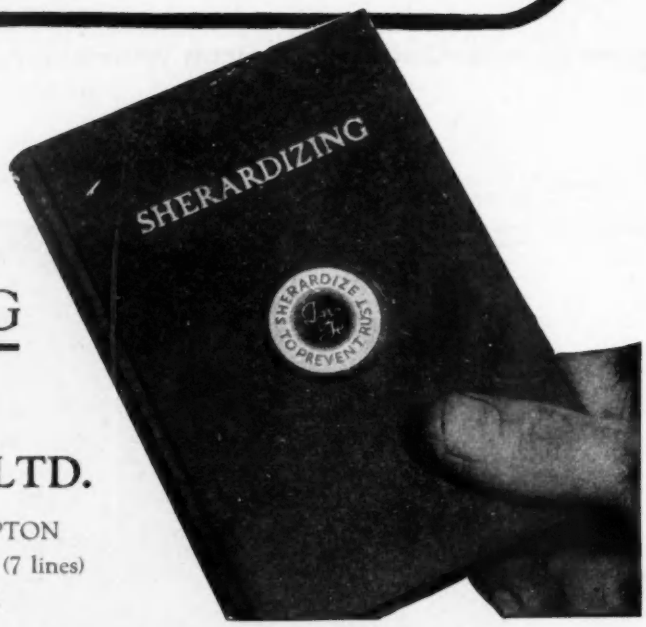


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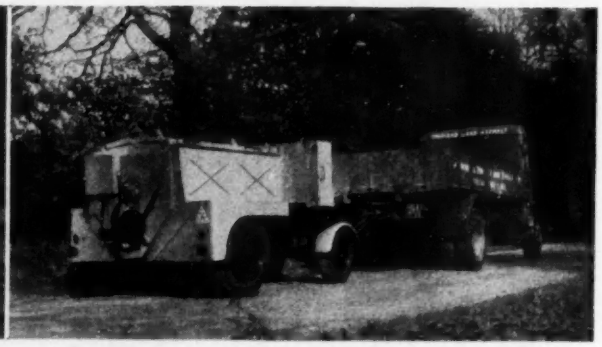

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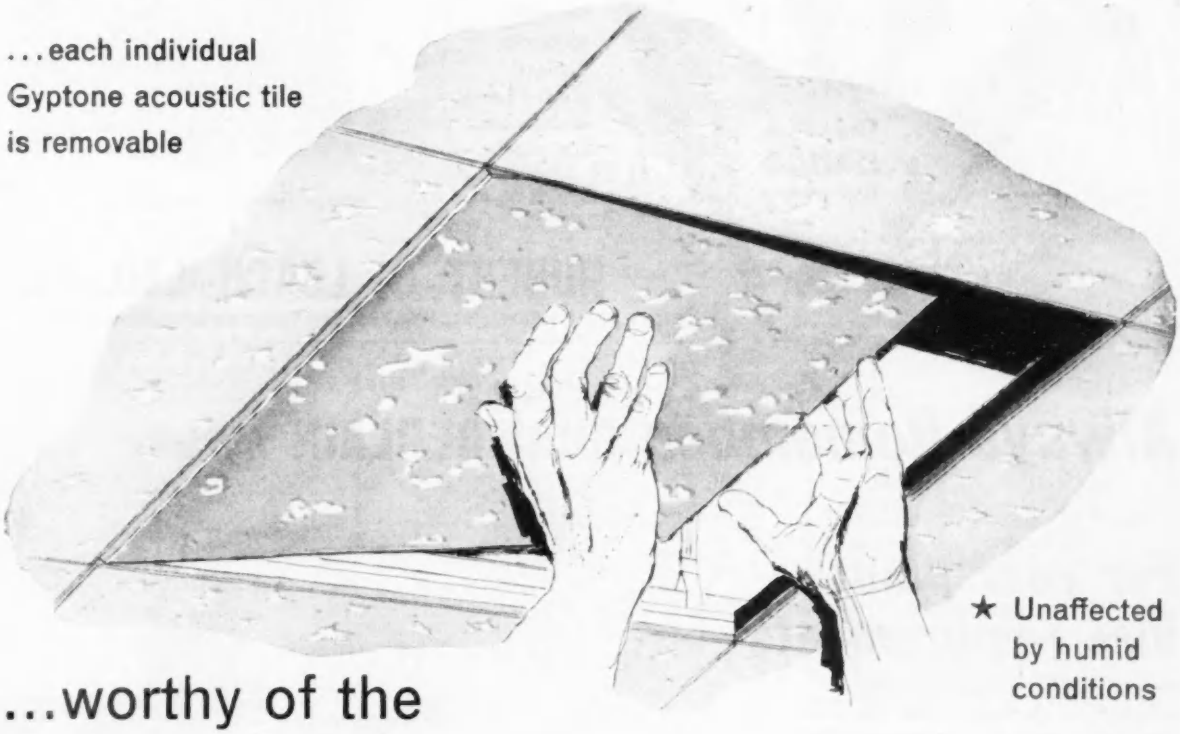

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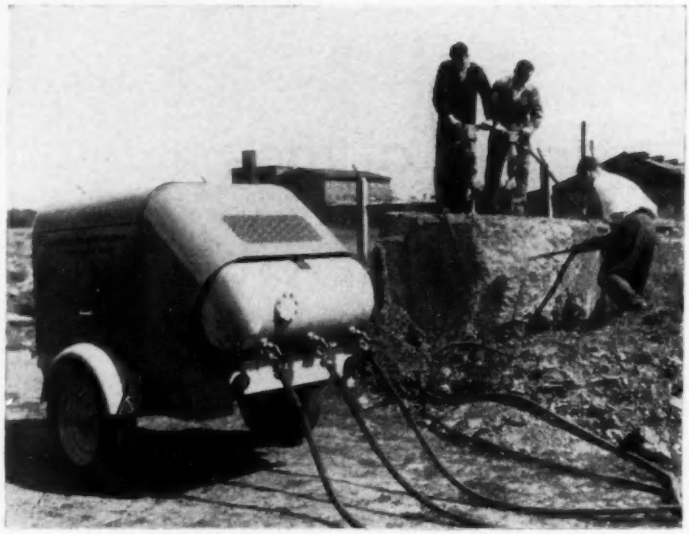

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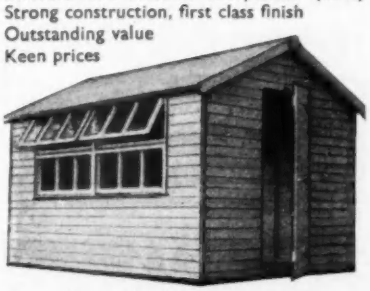

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**JUNIOR DRAUGHTSMAN** (either sex) Required in connection with College Expansion and Building Programme. Knowledge of tracing, lettering and filing of building plans. Superannuable post. Salary according to age and experience, in range £450 to £570 per annum. Applications, giving details of age and experience, to the Development Secretary, IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, London, S.W.7.

**WANTED:** keen, lively DRAUGHTSMAN, preferably with H.N.C. and some experience in building matters, to assist Company Architect. Good all-round experience. Permanent, pensionable post with attractive salary.—Applications: Resident Architect, EVANS MEDICAL Ltd., Speke, Liverpool 24.

**PLUMBING DESIGNER/DRAUGHTSMEN** interested in the preparation and supervision of plumbing schemes, are invited to join a team of specialists in a large architectural office. Interesting and varied work in congenial conditions, realistic salary, five-day week and pension scheme. Please state age and experience.—Box 5544, "The Builder."

**DRAUGHTSMAN** Required for Precast Concrete Works, Iver, Bucks. Permanent position.—'Phone: Mr. Yardley, Iver 1540 or p.m. Slough 22175.

**TWO BUILDING DRAUGHTSMEN** Required by the LONDON CO-OPERATIVE SOCIETY, Ltd., to operate respectively from Parson's Green-lane, Fulham, S.W.6, Works Depot., and from Clements-lane, Ilford Works Depot. Salary at the rate of £694 17s. per annum. Applicants must be capable of working-up details from Architects' drawings and producing drawings for minor jobs and preferably have a knowledge of the London Building Acts. The successful candidates will be required to pass a medical examination and after a probationary period to participate in the Society's contributory pension scheme. Applications giving details of age, experience and qualifications should be addressed to Staff Office, L.C.S., Ltd., 54 Maryland-street, Stratford, E.15, endorsed "Building Draughtsman."

**ASSISTANT,** age 22-35, Required for Premises Department. Must be able to prepare schemes, specifications, carry out surveys and be a good draughtsman. Good commencing salary, with additional bonus. Pension plan.—Please write, giving fullest details of age, experience, etc., to Personnel Manager, THE NATIONAL CASH REGISTER CO., Ltd., 206-216 Marylebone-road, London, N.W.1.

# SENIOR DESIGNER DRAUGHTSMAN

required by firm of National Contractors, to take charge of small but busy Drawing Office. This position offers every opportunity for advancement as it is intended to expand the office in due course. Top salary. Pension Scheme, etc.
Please write to:

**Box No. 5480, "The Builder"**

### *CIRCULARS*

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## B.M.C. SERVICE LIMITED

Keen young

## ARCHITECTURAL DRAUGHTSMEN

required for an expanding Department, to work on the re-planning of Distributors' and Dealers' premises throughout the world. Opportunity to gain experience in a new and ever increasing specialist field.

Please apply to:

**the Personnel and Welfare Manager,**
**Morris Motors Ltd.,**
**Cowley, Oxford**


## QUANTITY SURVEYORS

**ASSISTANT QUANTITY SURVEYOR,** good knowledge of Civil Engineering Quantities, Estimating and Contracts Procedure. Required for London office. Willing to spend periods on sites if necessary. Good commencing salary according to age and experience, luncheon vouchers, etc.—Apply in writing with details, to C. H. DOBBIE & PARTNERS, Consulting Civil Engineers, 58 Victoria-street, S.W.1.

**WELL-KNOWN FIRM** of London Chartered Quantity Surveyors, with varied and expanding practice, Require experienced ASSISTANTS capable of handling jobs through all stages with the minimum of supervision. Commencing salary up to £1,500 per annum according to ability. The appointments envisaged would be permanent.—Write, giving details of experience and salary expected, to Box 964, "The Builder."


## QUANTITY SURVEYORS REQUIRED

Large firm of London Quantity Surveyors with many long term varied projects are once again expanding their Organisation, and applications are invited for the following positions:—

*SENIOR TAKERS-OFF* (A.R.I.C.S.), Salary £2,000 per annum plus Overtime.

*EXPERIENCED WORKERS-UP* Salary £1,000 per annum plus Overtime.

*EXPERIENCED MEASURING SURVEYORS*, preferably A.R.I.C.S., Salary £1,350 per annum. Car provided.

These are permanent positions and salaries are reviewed at six months intervals. Great possibilities of promotion exist within the Organisation. 5 day week. Pension and Life Assurance Scheme. Holiday commitments honoured. Please apply in own handwriting stating age and experience to:

**Box No. 5594 "The Builder"**

## COSTAIN

## QUANTITY SURVEYORS

There are two appointments available with Richard Costain (Construction) Ltd. which offer responsibility for the full range of surveying duties on large building contracts. One surveyor is required to work in the London area; the other will work on provincial contracts administered from London—the man filling this post must be mobile.

*Applications are invited from surveyors aged 27-32 who have had at least 3 years' experience with contractors, which must include site measurement and the preparation of interim and final accounts.*

Week-end or evening interviews can be arranged.

*Please write to :-*
**Personnel Manager, Richard Costain Ltd.,**
**111 Westminster Bridge Road, London, S.E.1.**


**ASSISTANT QUANTITY SURVEYOR,** A.R.I.C.S. 5 years, for London Quantity Surveyors. Salary according to ability.—Please write giving full particulars to Box 989, "The Builder."

**QUANTITY SURVEYOR,** well experienced, Required for site measurements, preparing interim valuations and final accounts on all classes of Building and Civil Engineering work. Pension scheme in operation.—Write, in confidence, stating age, experience and salary required to General Manager, Constructional Department, CAWOOD WHARTON & CO., Ltd., Southlands, Harrogate, Yorkshire.

**IMPERIAL CHEMICAL INDUSTRIES, Ltd.,** Dyestuffs Division, has a vacancy in Manchester for a QUANTITY SURVEYOR (ASSISTANT) to assist with the preparation of Interim Certificates, Sub-Contracts and Final Accounts, for Industrial, Office and amenity-type buildings. Candidates with a knowledge of preparation of Bills of Quantities and Cost Estimates are preferred and some contracting experience is desirable. Applications giving brief details of experience and qualifications should be made to Staff Department, Hexagon House, Blackley, Manchester, 9.

**LONG-ESTABLISHED** firm of London (E.C.) Chartered Quantity Surveyors Require qualified ASSISTANTS capable of taking charge of complete jobs with minimum supervision.—Write, stating experience and salary required, Box 5030, "The Builder."

**QUANTITY SURVEYOR,** experienced taking-off, Interim valuations and Final Accounts. State age, experience, salary.—Apply by letter to C. CORNES & SON, Ltd., 169 Lichfield-street, Hanley, Stoke-on-Trent.

**FINAL ACCOUNT SPECIALIST** Required for responsible position with London Chartered Quantity Surveyors. Thirty-five hour week, three weeks' holiday.—Write giving details of experience and expected salary range to Box 5385, "The Builder."

**ASSISTANT QUANTITY SURVEYORS** Required, intermediate or final standard in small professional office in Cumberland.—Write giving details of experience and salary required to Box 5408, "The Builder."

**ASSISTANT QUANTITY SURVEYOR** of about Intermediate standard, Required in small congenial office at Victoria with varied work in hand and to come. Holiday this year and fixed arrangements honoured.—Please write giving useful particulars to Box 5486, "The Builder."

**LONDON C.Q.S.** (staff about 20) Require A.R.I.C.S. as SENIOR ASSISTANT with view to local partnership in branch office either at home or overseas later. Possibility of full partnership ultimately for right man.—Write for application form to Box 5457, "The Builder."

**QUANTITY SURVEYORS** Required for Building and Civil Engineering contracts in East Anglia. Permanent positions with good prospects and entry into pension scheme after probationary period.—Box 5460, "The Builder."


Assistant

## Quantity Surveyors

having a good background in the industry together with the drive and initiative to merit promotion to senior positions are offered opportunities on a variety of interesting contracts in and around the London Area. Apply in writing with full details to:

**Chief Quantity Surveyor, (Ref. D.J.B.),**
**Howard Farrow Ltd.,**
**Highfield Road, Golders Green, N.W.11.**

## A. MONK & COMPANY, LIMITED

require

## QUANTITY SURVEYORS

*for sites in*

*MIDDLESBROUGH area*

also

## ASSISTANT QUANTITY SURVEYORS

*for London Office*

Apply stating age and experience to

**Chief Surveyor**
at the Company's Head Office,
Padgate,
Warrington, Lancs.

**ASSISTANT** Required by Chartered Quantity Surveyor to deal with requests by staff and clients for information on materials, costs and comparisons. Taking-off experience essential.—Box 5134, "The Builder."

**WANTED** for all-round Q.S. duties by small but expanding professional firm, Harrow area, to assist with varied programme of future work. Good rewards and prospects for conscientious workers.—Write, giving full particulars, to Box 5356, "The Builder."

**ASSISTANT QUANTITY SURVEYOR,** R.I.C.S., intermediate standard. Required in small office on varied and interesting work. Five-day week, L.V. and pension scheme. Salary by arrangement.—F. B. BRYDEN & PARTNERS, 33 Catherine-place, Westminster, S.W.1. Tel.: VIC 0924/5.

**QUANTITY SURVEYOR,** able in taking-off and in settling final accounts. Required by London Quantity Surveyors with a varied practice. Three weeks' holiday per annum.—Write, stating experience and salary required, to Box 953, "The Builder."

**ASSISTANT QUANTITY SURVEYOR** of Intermediate R.I.C.S. or equivalent standard. Required by Westminster Quantity Surveyors.—Write, stating age, experience and salary required, to Box 956, "The Builder."

**CHARTERED QUANTITY SURVEYOR** Required to take charge of Quantity Surveying side of Architectural Practice. Schools, Hospitals, Domestic and Industrial work. Pension and Bonus schemes in operation. Salary by arrangement.—Reply to FIRTH, SON & BLACKBURN, A.R.I.B.A., Broadway House, Crackenedge-lane, Dewsbury.

**QUANTITY SURVEYOR,** qualified A.R.I.C.S., not less than four years. Required by long-established and well-known medium-sized firm of Chartered Quantity Surveyors in London, W.C., district. Must be capable of all usual duties with minimum supervision. Luncheon vouchers, three weeks' holiday, superannuation scheme. Salary according to experience and abilities.—Write, giving details of training and experience, to Box 5442, "The Builder."

**QUANTITY SURVEYOR** Required by Chartered Quantity Surveyors in Warrington area for general duties including site measurement and final accounts. Five-day week.—Apply, stating age, experience and salary required, to Box 5494, "The Builder."

**SENIOR QUANTITY SURVEYOR** Required by Chartered Surveyors, Westminster, for interesting Building and Civil Engineering work. Overtime work if desired. Pension and life assurance scheme.—Write stating age, experience and salary required, to Box 5501, "The Builder."

**SITE QUANTITY SURVEYOR** Required by Chartered Quantity Surveyors to deal with re-measurement and settlement of final accounts in connection with large building contracts in the Stafford and Stoke-on-Trent area.—Please reply, stating age, experience and salary required, to W. F. HILLS & CO., 69a Wyle Cop, Shrewsbury.

**QUANTITY SURVEYOR/ESTIMATOR** Required for East London builders.—Tel: ROYal 1619.

**CHARTERED QUANTITY SURVEYOR** Required for small office of Architects and Surveyors to build up section under partner. Must be capable of working on own initiative. Excellent prospects. Salary range envisaged £1,250 to £1,500 p.a.—ELSWORTH SYKES & PARTNERS, 5 Maddox-street, W.1.

**ASSISTANT QUANTITY SURVEYOR** Required by the LONDON CO-OPERATIVE SOCIETY, Ltd., for their Works Dept., at Whitta-road, Manor Park, London, E.12. Applicants should have reached Intermediate standard of the Institute of Quantity Surveyors and should be fully experienced in taking-off, working-up and billing for new works and conversion of existing properties. A knowledge of estimating and/or specification writing would be an advantage. Salary within the scale £779 12s. to £831 12s., according to age and experience. The successful candidate will be required to pass a medical examination and after a probationary period to participate in the Society's contributory pension scheme.—Applications giving details of age, experience and qualifications should be addressed to Staff Office, L.C.S., Ltd., 54 Maryland-street, Stratford, E.15, endorsed "Assistant Quantity Surveyor."

## QUANTITY SURVEYOR

**REQUIRED FOR LONDON OFFICE OF ESTATE DEVELOPERS OF HOUSES & FLATS IN LONDON & HOME COUNTIES**

Duties will include site valuations, taking off quantities and materials schedules, general surveying duties etc.

**GENEROUS SALARY—CAR ALLOWANCE PENSION SCHEME**

*WRITE IN FULL DETAIL TO* **M.D.,**

**Box 5444 "The Builder"**

## WIMPEY

**ASSISTANT QUANTITY SURVEYORS**

of I.Q.S. standard and with experience in Final Accounts, Sub-Contract Measurements, etc., required for contracts in Home Counties.

*Write or telephone to :*

**Personnel Officer, George Wimpey & Co. Ltd., Hammersmith Grove, London, W.6. Riverside 2000**

***York Quantity Surveyors***

require

## QUANTITY SURVEYOR

**preferably A.R.I.C.S. or A.I.Q.S. with sound all-round experience.**

## ASSISTANT QUANTITY SURVEYOR

Salary will be commensurate with ability. Applications, in writing, giving details of experience and qualifications, to

**TURNER AND HOLMAN,**
Quantity Surveyors,
**8, Blake Street,**
**York.**

**MERZ AND McLELLAN**

invite applications for the following vacancies in their Quantity Surveying department:—

## RESIDENT QUANTITY SURVEYOR

(preferably A.R.I.C.S.) to take charge of site office on large, long-term building and civil engineering project situated in N.E. Midlands. Applicants should have considerable previous experience in all normal quantity surveying duties.

## SENIOR QUANTITY SURVEYORS

to be engaged in Head Office at Newcastle upon Tyne. Duties comprise taking-off and settlement of final accounts etc. for large building and civil engineering works.

Five-day week and superannuation scheme in operation. Attractive commencing salaries in accordance with age and experience. Write stating brief particulars to :

**Merz and McLellan,**
Consulting Engineers,
**Carliol House, Newcastle upon Tyne, 1**
quoting ref. S.A.R.

## £1,125—£1,500

**Co-operative Wholesale Society Ltd. Architect's Department, Manchester**
have vacancies for

## QUANTITY SURVEYORS

Senior Takers Off, with Professional experience.
Membership of R.I.C.S. desirable but not essential.
Commencing salary dependent on ability and experience.

5 day week.
3 weeks holiday.
Pension Scheme.

Applications, stating training, age, experience, qualifications and salary required to:—

**G. S. Hay, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd. 1, Balloon Street, Manchester 4.**

BRITISH RAILWAYS

Applications are invited for the post of

## ASSISTANT QUANTITY SURVEYOR

in the office of the Architect, Eastern Region, at King's Cross Station. Applicants should be capable of taking off quantities for architectural work, writing specifications, preparing estimates and adjusting variations. Intermediate R.I.C.S. (Quantities) desirable. Salary range £945—£1,020. Modern working conditions, five-day week and substantial rail travel concessions. Apply, in writing, to the **Architect, British Railways, Eastern Region, King's Cross Station, London, N.1.**

---

TROLLOPE & COLLS LIMITED

require the services of

## EXPERIENCED QUANTITY SURVEYORS

for large building contracts in the London area. Must have sound knowledge of site measuring, valuations, final account preparation, etc. Apply stating age, experience and salary required, to:—

**The Assistant Secretary, (Ref. S.),**
**TROLLOPE & COLLS LTD.**
**1, Noble Street,**
**Gresham Street,**
**London, E.C.2.**

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## OPUS LTD.

require

## ASSISTANT QUANTITY SURVEYOR

for London Office

Capable of complete remeasurement, working up, billing for interim and final accounts for Contracts around £50,000. Also for taking off, interior shopfitting, scheduling of materials, etc.

Good salary and prospects. Superannuation scheme.

Pleasant working conditions.

*Apply in full detail,*

**20, Telford Avenue, London, S.W.2**

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**CHARTERED QUANTITY SURVEYORS** in Chester Require ASSISTANT, about Intermediate Standard, with experience in Taking-Off, running Contracts, etc. Duties offer opportunity for accumulating valuable experience in all aspects of the profession. Salary according to experience, plus bonus and overtime. Superannuation scheme.—Write: MERCER & MILLER, 2 Upper Northgate-street, Chester, giving personal particulars and salary required.

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## EXPERIENCED QUANTITY SURVEYOR

required for permanent post in Cardiff. Capable of handling substantial contracts. Contractors experience essential. Participation in Superannuation Fund and Profit Sharing Scheme after probationary period. Holiday arrangements honoured. Good car allowance.

Write to:

**Manager,**
**Staverton Contractors (Wales) Ltd.,**
**Imperial Buildings,**
**St. Mary Street, Cardiff,**

marked "Confidential," giving full particulars and salary required.

---

**CHARTERED QUANTITY SURVEYORS** in Euston district Require JUNIOR ASSISTANT for progressive position. Salary £1,000.—Write, experience and present employment, to Box 5556, "The Builder."

**SENIOR ASSISTANT** Required for busy professional office in Harrow. Good opportunity for conscientious worker in expanding and varied practice.—Write, stating age, experience and salary required, to Box 5588, "The Builder."

**QUANTITY SURVEYOR,** with experience in Taking-off and Final Accounts, etc. Minimum intermediate standard, for small to medium-sized busy professional office with varied work. Permanent position with pleasant conditions and good prospects.—LESLIE W. CLARK & PARTNERS, 9 Richmond Buildings, Dean-street, W.1. GER 0775.

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## QUANTITY SURVEYORS

**REQUIRED**

a. **QUANTITY SURVEYOR** (Preferably Chartered) competent in all branches of work.

b. **ASSISTANT QUANTITY SURVEYOR** competent in Taking-off and settling of Final Accounts.

c. **SITE SURVEYOR** competent in measuring all types of works and for Final Accounts.

d. **ASSISTANT QUANTITY SURVEYOR** competent in Abstracting and Billing and Site measuring.

Please reply stating age, education, full experience and salary required—**R. V. Jenkins & Co., 737, Warwick Road, Solihull, Warwickshire.**

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CUBITTS

## APPOINTMENTS

*— see pages 64 and 65*

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**SENIOR**

## Quantity Surveyor

Required by well-known medium Manchester B. and C.E. Contractors. Estimating knowledge useful but not essential. Age 30–50. Applicants should be capable of dealing with Contracts from £20,000 to £400,000. Responsible only to Managing Director. Man already acting as Surveyor/Contracts Manager preferred. Assistance with housing if desired. Salary £1,250–£1,500 plus bonus. Full details in confidence to:

**Box No. 5487, "The Builder"**

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## QUANTITY SURVEYOR

Progressive Firm of Civil Engineering Contractors invite applications from Quantity Surveyors, for tendering and Monthly and Final Certificate Work. Excellent opportunity for young man, but older person would be considered. Salary by mutual agreement.

Reply to:

EDWARD JACKLIN LTD.,
SCAMPTON, LINCOLN

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## SURVEYORS

**BUILDERS' ESTIMATING SURVEYOR** Required near Reading. Experienced in dealing with estimates from enquiry to final account. Must be capable of organising and supervising his own jobs and working on his own initiative.—Reply giving full particulars of experience, references, age and salary required, Box 940, "The Builder."

**SITE MEASURING SURVEYOR** Required for contracts, 25 miles radius Basingstoke, permanent.—Write, giving full particulars, Box 982, "The Builder."

**MEASURING SURVEYOR** Required by Quantity Surveyors', Westminster, for work in the London area. Salary according to qualifications and experience and reviewed regularly. Luncheon vouchers, pension scheme.—Apply, stating age and experience, to Box 936, "The Builder."

**SURVEYOR** Required by London Quantity Surveyors mainly for measuring variations, preparation of interim valuations and final accounts for varied building contracts. Occasional travelling. Salary £900-£1,200 according to ability.—Please write, giving full particulars, to Box 990, "The Builder."

**RESIDENT SURVEYOR** wanted by London Quantity Surveyors for large contract in North West England, duration about three years. Must be very experienced and thoroughly acquainted with Final Account work. Details of experience, age, and salary required, to Box 993, "The Builder."

**SITE MEASURING SURVEYOR** Required for contracts Barnet, North London area. Permanent position.—Write details to Box 933, "The Builder."

**JUNIOR BUILDING SURVEYOR** Required, in early twenties. Must have attained O.N.C. or H.N.C. in Building. Good opportunity to learn profession and obtain L.I.O.B.—Write giving details of education, training in builder's office, age and salary required, to R. J. ADAMS, Ltd., 11/12 Finsbury-square, E.C.2.

# SURVEYOR

is required by the City Office of

## H. FAIRWEATHER & CO. LTD.,

The vacancy will be filled by a man experienced in surveying and negotiating medium sized contracts from commencement to final account, who has initiative and is used to responsibility.

Salary will be related to qualifications and experience.

Modern Offices—alternate Saturdays free—Staff Pension Fund in operation. Present holiday commitments honoured.

*Reply to:*

**Brooks House,**
**48, Upper Thames Street,**
**London, E.C.4**

stating age, when you are available, and the salary you require.

## TERSONS LIMITED

require

# A SENIOR SURVEYOR

for work in the London area.

With a view to permanency the successful applicant will be invited to join the Company's pension scheme after a satisfactory trial period.

This advertisement is aimed at a first-class man who is willing to work in a team. Every encouragement will be given for maximum effort.

Please write, giving full details of career and salary, quoting reference 'L.K.' All letters will be treated in the strictest confidence.

**Tersons Limited,**
**Dollis Park, London, N.3**

A 75

## A. H. ANDERSON LIMITED

require a

# SURVEYOR

This Company provides a complete design and management service to the Architect and/or the Building owner in connection with its method of construction known as A 75.
We require a SURVEYOR to carry out under the Chief Surveyor, the Companies estimating procedure. He must be interested in the application of cost planning and be able to produce bills of quantities for minor works. A knowledge of current market prices is most desirable. This is a responsible position and will carry a substantial salary.

# ASSISTANT SURVEYOR

This position will be in the above department and we are looking for a younger man with some knowledge of quantities.

*Applicants may write or telephone to*

**The Chief Surveyor,**
**58, Victoria Street,**
**S.W.1.**

TATe Gallery 2192.

SHEPHERD

## PLANNING SURVEYOR

Applications are invited from Surveyors, preferably under 35 years of age, who have had sound experience with building contractors and are interested in the application of modern planning and production techniques.

The work includes taking off, site measuring and close liaison with site management on control and organisation of a number of contracts. The successful applicant, who will be expected to reside in the area, will be on the permanent staff of our YORK AREA OFFICE which is responsible for contracts throughout a wide area in Central Yorkshire.

Some travelling will be involved and a private car will be provided.

A good starting salary will be offered together with annual bonus and non: contributory pension and life assurance. Excellent staff conditions include a five-day week and three weeks annual holiday. Assistance with housing will be available if required.

Written applications, stating age, full details of training and experience, should be addressed for the personal attention of-

**M. F. Shepherd, F.I.O.B.,**
Director & Divisional Manager,
**F. SHEPHERD & SON LTD.**
*Building and Civil Engineering Contractors*
**Blue Bridge Lane,**
**YORK**

SENIOR AND JUNIOR

# SURVEYORS

**required for Aldermaston and Harwell. Long-term Contracts.**

Apply, stating age, experience, salary required and when available, to Secretary:

**W. E. CHIVERS & SONS LTD.**
**Devizes, Wilts.**
**Telephone Devizes 121**

**THOMAS LOWE & SONS LIMITED**

have a vacancy for a

# BUILDING SURVEYOR

in their Birmingham Office. Must be capable of dealing with interim certificates, bonusing, final accounts, etc., on contracts up to £200,000. Car mileage allowance given, also assistance if necessary in obtaining accommodation. Staff Pension Scheme available after satisfactory probationary period. Applications should be, in the first place, in writing to:

**Gazette Buildings,**
**Corporation Street, Birmingham 4,**

stating age, qualifications and salary required.

## RAPIDLY EXPANDING CONTRACTORS' DEPARTMENT HAVE VACANCIES FOR:

# TOP MEN TO WORK IN LONDON

**SENIOR SURVEYOR** To estimate and carry out Surveying duties. Must have good qualifications and experience. Age 30-40. Salary range £1,000-£1,500 p.a. Car provided. Pension Scheme.

**SUPERVISOR** To supervise top quality conversions, including meeting Architects and controlling labour. Qualifications required, trade and General Foreman experience. Salary range £1,000-£1,150 p.a. Pension Scheme.

**JUNIOR SURVEYOR** To assist Senior Surveyors and to take charge of small contracts. Salary £600 p.a.

**GENERAL FOREMAN** Required to take control of conversions in West End of London. Salary £750-£1,000 p.a.

**Box No. 5514, "The Builder."**

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## TROLLOPE & COLLS LIMITED

Invite applications for

# BONUS SURVEYORS

fully experienced in the measurement and preparation of bonus and cost returns. Applications, giving full particulars of qualifications, experience and salary required, should be sent to:

The Assistant Secretary,
**Trollope & Colls Limited**
1, Noble Street,
Gresham Street,
London, E.C.2

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## SURVEYOR

required with first-class knowledge of the industry from enquiry to final account stage, for small Contracts ranging from £500–£20,000. This position offers every facility for progress. Top salary, Pension Scheme, etc. Write, please, to:

**Box No. 5478, "The Builder"**

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# BUILDING SURVEYORS

required for expanding organisation in Sussex. Applicants should have good technical background and be experienced in all phases of surveying. Initial duties may involve planning, administration or site progressing. Excellent opportunities for young keen surveyors to go forward with a modern Company, holiday arrangements honoured, good salary and bonus.

Apply to:

**Box No. 5374 "The Builder"**

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**PLASTERING CONTRACTORS** in South-West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary, to Box 928, "The Builder."

**SUPERVISING SURVEYORS** Required by progressive building contracting company, Weybridge, Surrey. Not more than 35 years of age. Excellent opportunities to men with initiative.—Full particulars to Box 5243, "The Builder."

**BONUS SURVEYOR** Required for contracts generally in the East London area.—Apply, giving full particulars of qualifications, experience and salary required, to Mr. G. Marney, A. E. SYMES, Ltd., Albert House, 236, High-street, Stratford, E.15.

**SENIOR and SITE SURVEYORS** Required for Manchester area for Contracts due to commence. Permanent and progressive pensionable position with commensurate salary.—Full details to: Chief Surveyor, W. J. SIMMS, SONS & COOKE, Ltd., 396 Wilmslow-road, Manchester 20.

**SURVEYOR/DRAUGHTSMAN** Required, site surveys, site layouts, road and sewer sections, negotiating with all service undertakings.—Particulars or 'phone for appointment to TRUSTEEL CORPORATION, Lime Lodge, Heath-road, Oxhey, Watford, Herts. (Watford 26256).

**BUILDING SURVEYOR** Required in Architects' office. Duties will include preparation of surveys; working drawings and site supervision of smaller contracts; preparation of specifications and schedules for sub-contracts and general control of sub-contractors' work on large contracts. Five-day week. L.V.s. Pension scheme. Salary in range of £900 p.a.—LLEWELLYN SMITH & WATERS, 103 Old Brompton-road, S.W.7.

**LONDON** and Home Counties. SENIOR BONUS SURVEYOR Required. Must be experienced. Good salary and expenses paid.—Write to: GILBERT-ASH, Ltd., 2 Stanhope-gate, London, W.1. Ref.: RC/BS/L.

**BUILDING/SURVEYOR** Required by medium-sized company in West London. Aged between 25 and 30; should be experienced in all aspects of site measurement and the preparation of interim valuations and final accounts. Taking-off quantities an advantage.—Apply, in writing, giving details of experience, previous employers and salary required, to the Senior Estimator, DEARSLEY & CARTER, Ltd., 91 & 93 King-street, Hammersmith, W.6.

**BUILDING SURVEYOR** Required in Architects' office to assist in small works and estimates for larger projects.—Apply, giving details of experience and salary required, to LANCHESTER & LODGE, 10 Woburn-square, W.C.1.

**JUNIOR MEASURING SURVEYOR** Required by Chartered Quantity Surveyors near Holborn, to assist with interim valuations and preparation of final accounts on varied contracts. Salary commensurate with experience and opportunity for advancement. Five-day week, L.V.s, holiday this year.—Write with details to Box 5434, "The Builder."

**LONDON** Brewery Require a SURVEYOR about 35 years of age, to supervise the maintenance work on their properties in one of their London areas. Five-day week and permanent pensionable post after completing a suitable probationary period.—Apply stating age, salary and details of experience, to Box 5430, "The Builder."

**BUILDERS' SURVEYORS** Required in Yorkshire for measuring variations and preparation of final accounts on contracts up to £500,000. Age 25-45. Four-figure salary envisaged and staff pension scheme for suitable candidates.—Box 5468, "The Builder."

**MEASURING SURVEYOR** for interim valuations and final accounts Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 973, "The Builder."

**MEASURING SURVEYOR** Required by Chartered Quantity Surveyors in Warrington area for site measurement, cost control, interim valuations and final accounts. Five-day week.—Apply stating age, experience and salary required, to Box 5495, "The Builder."

**CORNWALL, Falmouth.** Contractor Requires COSTING/ESTIMATING SURVEYOR. Domestic Housing Estates. £900 approx. House or bungalow provided, pay rates only.—'Phone for appointment: TRUSTEEL CORPORATION (UNIVERSAL) Ltd., who will interview at Watford, Herts. (Watford 26256/7.)

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*required by*

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## CONTRACTORS LIMITED

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### SURVEYORS

up to H.N.C. level, for Housing Contracts. Head Office and Site appointments. Also

### JUNIOR SURVEYORS

with two to three years' experience.

### SENIOR SURVEYORS

who wish to widen their experience by training as Estimators.

### SITE ENGINEERS

for setting-out large Housing Contracts. Permanent appointments at substantial and progressive salaries, with participation in Bonus Scheme commensurate with individual effort, are offered. Pension Scheme after qualifying period.

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Written applications, please, to Personnel Manager, with full details of training, previous employments and salaries.

## CARLTON CONTRACTORS LTD.

CARLTON HOUSE,
ASHLEY ROAD,
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## SURVEYOR

required for Shuttering Contractors with offices in the S.W. area. Experience of shuttering essential. Good pay and prospects. Write, in first instance, giving details of experience, etc., to:

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## PAINTING CONTRACTORS

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Large and well-established painting contractors in North West London area require experienced and energetic SURVEYOR who has the desire and ability to progress. Age 25/40 preferred. Excellent salary according to experience, plus twice annual bonus on results. Company car supplied and personal use allowed. Present holiday arrangements will be honoured. Applications, which should give full details of past experience, will be treated in strict confidence. Replies to:

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## BUILDERS' SURVEYOR

one accustomed to measuring Air Ministry Maintenance on W.D. Schedule preferred but not essential. Good opportunity for applicant with experience and living in or around Uxbridge, Northwood/Ealing District. Apply giving details of previous Employers, training, experience and salary required.

**Box No. 5546 "The Builder".**

## SURVEYOR

For Site measuring valuations, operating bonus scheme and preparing material schedules.

Housing Contract, East London, 3½ years' duration.

APPLY:

**W. J. JERRAM LIMITED,**
**SANDFORD WORKS,**
**EAST HAM.**

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Experienced in speculative housing development required for position at the Head Office in Potters Bar. The positions offered are progressive, carry good salaries and excellent prospects. Write, stating age, experience, salary required to:

**The Chief Surveyor,**
**McMANUS & CO. LTD.,**
**Orchard House,**
**Potters Bar, Middlesex.**

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required for varied and interesting contracts. Permanent positions, superannuation scheme, 5-day week. Existing holiday arrangements honoured.

Write, stating age, experience and salary required, to:

**Chief Surveyor,**
**WILLIAM MOSS & SONS, LTD.,**
**North Circular Road,**
**Cricklewood, London, N.W.2.**

**PAINTING MEASURING SURVEYOR** Required by well-known Contractor. Excellent terms and conditions to really keen man.—Write, Box TB.617, c/o Hanway House, Clark's-place, E.C.2.

**BUILDING SURVEYOR** Required for Barking area; accustomed supervision of contracts, estimating and particularly clearing final accounts. Five-day week; canteen facilities; pension scheme in operation.—State experience, age, salary required, Box 5505, "The Builder."

**BUILDERS' SURVEYOR** Required with Estimating experience for all types of jobbing and contract work up to £50,000. This is a permanent and pensionable position with an expanding, long-established business.—Write, stating age, experience and salary required, to MILLER & REID, Ltd., 37/39 Handcroft-road, Croydon, marked for the attention of F. C. Reid, F.I.O.B.

**BUILDERS' SURVEYOR/ESTIMATOR** Required, capable of pricing, alterations and repairs off plans, specifications and bills.—Please reply, in writing, stating salary, age and experience, to JOHN JARVIS, Ltd., 46 Goods Station-road, Tunbridge Wells.

**SENIOR and JUNIOR MEASURING SURVEYORS** Required in Manchester office of C. WILLIAM O'L. MARKHAM & PARTNERS. Five-day week, pension scheme and luncheon vouchers.—Apply stating age, experience, and salary required, to 18 Lloyd-street, Manchester 2.

**BUILDER'S SURVEYOR** Required for work in connection with housing in Reading area. Must be experienced in the preparation of final accounts, estimates, site measuring, etc. Good salary. Transport provided.—Box 5512, "The Builder."

**BUILDING SURVEYOR,** knowledge of contract procedure, able to negotiate, some quantity and pricing experience, to maintain broad control on a number of housing contracts concurrently and to take charge generally of branch office in Bath. Alert personality particularly important. Car provided for considerable travelling and excellent salary to right man. Holiday commitments honoured.—Write Box 5518, "The Builder."

**BUILDING SURVEYOR** (F.R.I.C.S) Required by Chartered Surveyors, Surrey/Sussex border, to take full responsibility for conversions, improvements and structural surveys.—Apply, stating age, experience and salary required, to Box 5540, "The Builder."

## MEASURING SURVEYORS

required for Contracts in London and Home Counties.
Write stating experience and salary required to:—

**Prestige & Co. Ltd.**
**149 Grosvenor Road, S.W.1**

## TOKEN CONSTRUCTION COMPANY LTD.

require

## BONUS SURVEYORS

for all types of contracts in the London Area. Good salaries paid and all positions are permanent and pensionable. Write, stating age, previous experience and salary required, to:

**Chief Surveyor,**
**68, Mount Street, London, W.1**

**SENIOR BUILDING SURVEYOR** Required by large firm of Building Contractors for an important hotel project in London. Excellent salary and bonus offered. Superannuation scheme.—Apply, giving full particulars of previous experience, to Box 5536, "The Builder."

**CHARTERED QUANTITY SURVEYORS** Require experienced MEASURING SURVEYOR for large civil engineering contract in North Kent.—Please write, stating age, experience and salary required, to Box 5576, "The Builder."

**SURVEYOR** Required by Contractors specialising in Reinforced Concrete. Experienced in Taking-off and Measuring for Final Accounts.—Write, fully, with age and experience, to Box 5571, "The Builder."

**INDUSTRIAL BUILDING SERVICES (NORTHERN) Ltd.** (Members of the Henry Boot Group of Companies). Require SURVEYOR/ESTIMATORS as assistants at Head Office. Knowledge of civil engineering and building procedure in analysis, cost and build up and application of rates. Permanent position, pension scheme and profit sharing scheme in operation.—Apply for application form, quoting SE/B, to Director, HENRY BOOT & SONS (CIVIL ENGINEERING), Ltd., Banner Cross Hall, Sheffield, 11.

## ASSISTANT SURVEYORS

**ASSISTANT SURVEYOR** Required for measuring Sub-contractors' work, valuations, final accounts, etc., for sites in the London area.—Apply, giving full details of experience, salary required, etc., to R. MANSELL, Ltd., Grant-road, Croydon.

**YOUNG ASSISTANT** attending technical college Required as PERSONAL ASSISTANT to North West London Chartered Quantity Surveyor. Time off for study to conscientious applicant. Excellent opportunity to gain all-round experience.—Write to L. M. BRENNER, F.R.I.C.S., Vivian House, 166 Hampstead-way, N.W.11.

**ASSISTANT SURVEYOR,** aged 20-25, with H.N.C. or equivalent qualifications Required for group of estate and property development companies. Duties comprise the preparation of bills of quantities and material scheduling; site experience an advantage. Pension scheme, staff canteen and assistance will be given if required in obtaining a house in N.W. Kent.—Apply, Projects Manager, GOUGH COOPER & COMPANY, Ltd., Wilmington House, Wilmington, Dartford, Kent. Telephone: Dartford 20288.

**ASSISTANT SURVEYOR** Required to assist in Building Surveyor section of Architects. Preferably aged 30-35, with a good all-round professional experience in all branches of building surveying including the carrying out of alterations and improvements. Good draughtsmanship essential.—Box 5437, "The Builder."

**ASSISTANT SURVEYOR** Required. Salary according to experience.—GEORGE STONE (FOLKESTONE), Ltd., 127 Sandgate-road, Folkestone.

**JUNIOR SURVEYOR/TRAINEE** Required by Plumbing and Heating Contractors in Tottenham. Please write giving experience, age and salary required.—Box 5551, "The Builder."

**ASSISTANT BUILDING SURVEYOR** Required for Surveyors and Land Agents. Efficient in Struct. Surveys, plans, specifications and dilaps.—Apply GEERING & COLYER, 24 High-street, Tunbridge Wells.

ASSISTANT

## SURVEYOR

required by firm of National Contractors in their Small Works Department. This position offers every opportunity for advancement. Good salary, Pension Scheme, etc. Please reply, giving details of experience to date, etc., to:

**Box No. 5477, "The Builder"**

## HUMPHREYS LIMITED

require several

## ASSISTANT SURVEYORS

**to work in teams each comprising a Senior, Assistant and Trainee Surveyor.**

Permanent positions based on London office will allow young men of initiative and ability to make full use of all the modern techniques employed by the Company.

The excitement of unearthing another MITHRAS TEMPLE cannot be guaranteed but opportunities exist for working on major building works where the degree of responsibility for Surveying work will be governed only by the ability of the individual.

*Apply in writing, stating age, experience and salary required, to:*

**Personnel Department, 199 Knightsbridge, S.W.7.**

# ASSISTANT BUILDING SURVEYOR

Age about 25 required by a National Firm of Building and Civil Engineering Contractors in their West End Office for varied and interesting work including taking off, estimating, site measuring, accounts, targeting and planning. Preference will be given to applicants who have some experience in large scale housing and flat development schemes.

The position is permanent and progressive and a superannuation scheme is available after a probationary period. **Commencing salary about £750 p.a. plus a half-yearly bonus.**

Apply in writing to the

Construction Manager,

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## TERSONS LIMITED

**require**

# ASSISTANT SURVEYORS

in the West Middlesex area.

Applicants are offered excellent opportunities to widen their experience, with good salaries, regularly reviewed, together with bonus and superannuation benefits after probationary period. Holiday arrangements accepted.

Apply with full details of age, qualifications and experience to

**The Secretary,**
**Tersons Ltd.,**
**Dollis Park, Finchley, London, N.3.,**

quoting reference K.C.

# ASSISTANT SURVEYOR

East London Building Contractors. For site measuring, valuations, etc. Medium size Contracts. Permanency and pension for suitable applicant. Car or allowance provided. Salary commensurate with ability.

Apply **Box No. 5382 "The Builder."**

# ASSISTANT SURVEYOR

required. Experience in measuring and agreeing final accounts essential. Willing to assist Estimator. Good opportunity for advancement for right type.

*Apply in writing to:*

**SLOGGETTS (CONTRACTORS) LTD.**
**209 High St., Hampton Hill, Middx.**

## FREDERICK S. SNOW & PARTNERS

*CONSULTING ENGINEERS*

have vacancies on their permanent staff for

# TAKERS OFF

in their expanding Quantity Surveyors Dept. This Dept., which is approved by the R.I.C.S. and I.Q.S., is in a new building at 71 Southwark Street, London, S.E.1.

Five-day week, Luncheon Vouchers, Superannuation.

Please reply in writing stating age, experience, qualifications and salary required to:

**E. W. Ashford, A.R.I.C.S., F.I.Q.S.,**
**'Ross House,'**
**144 Southwark Street,**
**London, S.E.1.**

## JUNIORS

**JUNIOR TRAINEE QUANTITY SURVEYOR** Required by Westminster Quantity Surveyors.—Write, giving particulars, to Box 958, "The Builder."

**YOUTH** (just leaving school) Required in Chartered Quantity Surveyors' office near Holborn. Opportunity to learn the profession.—Write, stating age and details of education, to WM. C. INMAN & PARTNERS, 7 New-square, Lincoln's Inn, W.C.2.

**JUNIOR** Required in Quantity Surveyors office in Gray's Inn. Please write stating age, experience and salary required.—Box 5385, "The Builder."

**WATFORD.** Chartered Surveyors Require JUNIOR ASSISTANT for drawing office. Must be interested in architectural draughtsmanship. Approved office for R.I.C.S. examinations. Interesting and varied work.—STIMPSON, LOCK & VINCE, 9 Station-road, Watford.

## TAKERS OFF

**TAKERS-OFF.** Final standard. Required by Quantity Surveyors, Westminster. Good salary, luncheon vouchers. No Saturdays.—Apply, Box 929, "The Builder."

**SMALL FIRM** of Purley, Surrey, Chartered Quantity Surveyors Require JUNIOR TAKER-OFF (final standard). Pleasant working conditions.—Telephone: BYWood 1491 for appointment.

**SENIOR TAKER-OFF** for responsible position in busy Quantity Surveyors' office. Westminster. Salary commensurate with responsibility. Luncheon vouchers, pension scheme.—Brief details to Box 931, "The Builder."

**TAKERS-OFF** Required in Chartered Quantity Surveyors' office on work which is varied in nature. Good salaries will be paid to persons who will maintain the high professional standard of the office. Luncheon vouchers, pension and life insurance schemes in operation.—Apply by telephone, Chancery 5841, Reference S.D.M., or in writing, to Box 910, "The Builder."

**LONDON CHARTERED QUANTITY SURVEYORS** Require young, keen TAKERS-OFF, of Final R.I.C.S. standard, with good prospects in expanding practice.—Full details of experience, to Box 5270, "The Builder."

**A. S. WILSON AND PARTNERS,** Chartered Quantity Surveyors, Require TAKERS-OFF and WORKERS-UP in London and Provincial branches.—Apply, stating experience, to 8 Storey's-gate, Westminster, S.W.1.

**TOP PEOPLE** Required for top jobs in not very top firm of London Quantity Surveyors. Age 30-35. Top salary.—Box 5326, "The Builder."

**TAKERS-OFF and MEASURING SURVEYORS** Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 977, "The Builder."

**TAKERS-OFF** Required by London firm of Chartered Quantity Surveyors. Good opportunities to acquire wide and varied experience for those who have passed the R.I.C.S. Final Examination during the last five years, or those of similar standard.—Write for interview, giving age and experience, to Box 5504, "The Builder."

**CHARTERED QUANTITY SURVEYORS,** Southsea. Require TAKER-OFF, R.I.C.S. Inter. Standard. Salary £500/£700 per annum according to experience. Pension scheme after two years' probationary period.—Please reply to Box 5528, "The Builder."

**TAKER-OFF,** R.I.C.S., or similar, Required for West End office of BOND, FOSTER & PARTNERS. Age 30 years.—Please apply, in writing, stating salary required, to 19 Hertford-street, W.1.

**TAKERS-OFF** Required by London Quantity Surveyors opening branch office in Croydon area for varied projects including settlement of accounts. Overtime at increased rates. Non-contributory pension scheme. Holiday this year.—Write, stating age, experience and salary required, to Box 5507, "The Builder."

**TAKER-OFF** Required in professional office in Victoria for both Taking-off and settlement of accounts. Commencing salary £900-£1,200, according to ability. Overtime at increased rates. Non-contributory pension scheme. Holiday this year.—Write, stating age and experience, to Box 5509, "The Builder."

**POOLE AND DICK,** Chartered Quantity Surveyors, Require TAKING-OFF and WORKING-UP ASSISTANTS for their Manchester office.—Telephone: Manchester CENtral 6964.

**SENIOR TAKER-OFF** Required in medium-size professional office in Victoria for varied and interesting projects from Taking-off to settlement of accounts. Commencing salary £1,400. Increased rate for overtime. Non-contributory pension scheme. Holiday this year.—Write, stating age and experience, to Box 5510, "The Builder."

**EXPERIENCED TAKERS-OFF** Required by professional firm for Branch office in South Bucks.—Write stating age, experience and salary required, to Box 5539, "The Builder."

**EXPERIENCED TAKERS-OFF** Required for professional offices in the East Croydon area. Salary according to qualifications and experience. Luncheon vouchers. Contributory pension scheme.—Apply, with brief details, to Box 921, "The Builder."

**EXPERIENCED TAKER-OFF** Required by Westminster Quantity Surveyors for permanent position. Five-day week, luncheon vouchers, pension and life assurance scheme. Holiday this year.—Please write, stating age, experience and salary required, to MARKHAM & PARTNERS, Grosvenor-gardens House, S.W.1.

**CHARTERED QUANTITY SURVEYORS** have a vacancy for an experienced TAKER-OFF/MEASURING SURVEYOR for large-scale civil engineering and building contract at Newport-Monmouthshire.—Please write, stating age, experience and salary required, to Box 5575, "The Builder."

**EXPERIENCED TAKER-OFF/MEASURING SURVEYOR** Required by Chartered Quantity Surveyors for building and civil engineering contract in Scunthorpe.—Please apply, stating age, experience and salary required, to Box 5577, "The Builder."

**WOKING CHARTERED QUANTITY SURVEYOR** Requires experienced TAKER-OFF for permanent position. Five-day week, luncheon vouchers.—Apply in writing to E. P. STEVENS, 49/50 Maybury-road, Woking.

**TAKER-OFF,** Final standard. Required.—Write, giving particulars and when available, to ARTHUR J. WILLIS & THOMPSON, Chartered Quantity Surveyors, 41/42 Parliament-street, S.W.1.

**SENIOR TAKER-OFF** (A.R.I.C.S. preferred) Required in London office by busy firm of Chartered Quantity Surveyors. Commencing salary £1,250-£1,500, according to qualifications and experience, overtime available. Non-contributory pension and insurance scheme, and luncheon vouchers. Option of interesting work abroad.—Write Box 5585, "The Builder."

**TAKERS-OFF** Required by London Quantity Surveyors. Salary scale £900-£1,500 per annum, according to ability, plus overtime.—Please write, giving details of experience, age, etc., to Box 5569, "The Builder."

**LONDON** firm of Chartered Quantity Surveyors Require a SENIOR ASSISTANT for a permanent position with a high level of remuneration. Luncheon vouchers and pension scheme.—Please apply, giving details of age, experience and salary required, to Box 5578, "The Builder."

**SENIOR ASSISTANT** Required by London firm of Chartered Quantity Surveyors. Salary up to £1,700 per annum according to age and experience. Luncheon vouchers and pension scheme.—Please apply to Box 5579, "The Builder."

**JUNIOR TAKER-OFF** Required by London firm of Chartered Quantity Surveyors. Salary £750-£1,000 for five-day week. Luncheon vouchers, overtime payments and pension scheme.—Please apply, stating age and experience, to Box 5580, "The Builder."

**TAKER-OFF, A.R.I.C.S.,** and JUNIOR TAKER-OFF/WORKER-UP Required for small C.Q.S. office near Baker-street. Five-day week, salary according to experience and ability. Three weeks' holiday per annum; holiday arrangements honoured this year.—Please 'phone PAD 4527, or write, V. J. MENDOZA, A.R.I.C.S., 138 Gloucester-place, N.W.1.

**SHEFFIELD C.Q.S.s** have vacancies for TAKERS-OFF, preferably of R.I.C.S. Final and Inter. standard. Luncheon vouchers, pension and life insurance schemes.—Reply, giving brief particulars, to Box 5461, "The Builder."

**JOHN McBAIN & PARTNERS,** Quantity Surveyors, Require taker-off and worker-up at their St. Albans office.—Apply 25 Ludgate-hill, London, E.C.4.

**RECENTLY QUALIFIED TAKER-OFF** Required to work under resident partner for a position offering much scope and responsibility in new branch office at Winchester, with work covering a wide area of the south.—Apply to D. A. DEGERDON & PARTNERS, F./A./A.R.I.C.S., 12 Goodwins-court, St. Martins-lane, W.C.2.

**JUNIOR TAKER-OFF,** R.I.C.S., Intermediate standard, Required for small City Q.S. office. Varied work and opportunity for quick progress and additional responsibility. Reply stating age, experience and salary.—Box 5388, "The Builder."

**TAKERS-OFF** Required by City firm of London Chartered Quantity Surveyors.—Apply, giving age, experience and salary required, Box 5031, "The Builder."

# TAKER-OFF

**offered**

**£1,200 to £1,500**

**according to ability**

Annual salary review, good prospects for hard worker with quick modern approach to quantities.

Write in confidence giving past experience and present salary to:

**Box No. 5521, "The Builder"**

## WORKERS UP

**WORKERS-UP** Required, Senior and Junior, for office of Chartered Quantity Surveyors in the Holborn area.—Box 950, "The Builder."

**QUANTITY SURVEYORS** in Westminster Require JUNIOR WORKER-UP. Opportunities of progressing through training to more senior position.—Please reply, stating age, experience and salary, to Box 963, "The Builder."

**SENIOR WORKER-UP** Required by London Quantity Surveyors, to take charge of department. Three weeks' holiday per annum.—Write, stating age, experience and salary required, to Box 955, "The Builder."

**WORKER-UP** Required by small professional firm in the City. Opportunities for advancement. Five-day week.—'Phone MONarch 0597 for appointment.

**WORKER-UP** Required for medium-size Quantity Surveyors office in Victoria area. Good prospects; luncheon vouchers; non-contributory pension scheme.—Write stating age, experience and salary required to Box 5355, "The Builder."

**WORKERS-UP** Required by London Chartered Quantity Surveyors for permanent staff. Luncheon vouchers.—Write, stating age, experience and salary required, to Box 979, "The Builder."

**JUNIOR WORKER-UP** Required by Sussex C.Q.S. Five-day week, luncheon vouchers.—Write, stating age, experience and salary required, Box 5454, "The Builder."

**CITY QUANTITY SURVEYORS** Require WORKER-UP. Five-day week, luncheon vouchers, pension scheme and paid overtime.—Please reply stating age, experience and salary required, to SYDNEY C. GORDON & PARTNERS, Finsbury House, Bloomfield-street, E.C.2.

**INTERMEDIATE** standard ASSISTANT Required by Chartered Quantity Surveyors to do Working-up, Junior Taking-off and Site Measuring. Salary according to experience and qualifications. Full details to HARRIS, ROURKE & SIMPSON, 35 Catherine-street, Salisbury. Tel No.: Salisbury 4914.

**WORKER-UP** Required in Quantity Surveyors office in Gray's Inn. Please write, stating age, experience and salary required.—Box 5384, "The Builder."

**WORKER-UP**, experienced, Required by firm of Chartered Quantity Surveyors near Victoria Station. Pleasant small office, five-day week, L.V.s, holiday this year.—Reply giving age, experience and salary required, to Box 5379, "The Builder."

**EXPERIENCED WORKER-UP** Required. Excellent opportunities to take responsible position; five-day week, pension scheme.—Full particulars, in own handwriting, to LISSENDENS, 12 Grafton-street, London, W.1.

**WORKER-UP** Required in Chartered Quantity Surveyors' office near Holborn. Not less than 3 years' experience. Good salary and overtime rates paid. L.V.s, 5-day week. Holiday this year.—Write details of age and experience to Box 5370, "The Builder."

**SENIOR WORKER-UP** Required by Chartered Surveyors, Westminster, to take charge.—State experience, age and salary required, to Box 5502, "The Builder."

**WORKER-UP** Required by Chartered Quantity Surveyors in Shrewsbury office. Previous experience essential.—Please reply, stating age, experience, and salary required, to W. T. HILLS & CO., 69a Wyle Cop, Shrewsbury.

**WORKERS-UP** Required by London Quantity Surveyors opening branch office in Croydon area. Good prospects; overtime at increased rates; non-contributory pension scheme; holiday this year.—Write, stating age, experience and salary required, to Box 5508, "The Builder."

**WORKER-UP** Required by West End firm of Chartered Quantity Surveyors, with opportunity for Junior Taking-off within twelve months. Salary £500 per annum.—Reply stating age and experience to Box 5542, "The Builder."

**EXPERIENCED WORKER-UP** Required by Westminster Quantity Surveyors for permanent position. Five-day week. Luncheon vouchers. Pension and Life Assurance Scheme. Holiday this year.—Please write, stating age, experience and salary required, to: MARKHAM & PARTNERS, Grosvenor-gardens House, S.W.1.

**WORKER-UP** Required in small to medium-sized busy professional office. Permanent position with pleasant conditions and opportunities for advancement. With or without taking-off experience.—LESLIE W. CLARK & PARTNERS, 9 Richmond Buildings, Dean-street, W.1. GER 0775.

**CHARTERED QUANTITY SURVEYORS** Require WORKER-UP for long-term contract at Newport, Mon.—Please write, stating age, experience and salary required, to Box 5581, "The Builder."

**LONDON** firm of Chartered Quantity Surveyors have vacancy for WORKER-UP. Permanent position, luncheon vouchers, pension scheme, overtime paid.—Please write stating age, experience and salary required, to Box 5582, "The Builder."

**£900 to £1,150**

dependant on experience offered to

# WORKER UP

Annual salary review, good promotional prospects. Possibilities of advancement to TAKING OFF or SITE SURVEYING dependant on ability. Write in confidence giving details of experience and present salary to

**Box No. 5522, "The Builder"**

## ENGINEERS

**STRUCTURAL ENGINEER** Required to take charge of Consulting Department in a large Architects' office. Sound structural knowledge and imaginative outlook a necessity.—Apply stating experience and salary required, to Box 5252, "The Builder."

**PLANNING AND PROGRESSING BUILDING and CIVIL ENGINEERING CONTRACTS.** This vacancy calls for a training in the industry to H.N.C. or L.I.O.B. standard with a full knowledge of B. of Q. specifications and drawings and some site organisation, to prepare progress charts and schedules for new contracts.—Applications should state fully age and history, to: WILSON LOVATT & SONS, Ltd., Clarence-street, Wolverhampton.

**WANTED** immediately ENGINEER/AGENT for Sewage Disposal Works Contract in London. Good prospects, superannuation scheme, car provided. Please write stating age, experience and salary required.—J. L. EVE CONSTRUCTION CO., Ltd., 17 Hillside, Ridgway, Wimbledon, S.W.19.

**F. BRADFORD & CO., Ltd.,** have vacancies for reinforced CONCRETE DETAILERS. Salary according to experience and ability. Five-day week. Staff bonus and pension schemes. Canteen facilities.—Application in writing to F. BRADFORD & CO., Ltd., Eley Estate, Angel-road, Edmonton, N.18.

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**INVITE APPLICATIONS FOR**

# PLANNING ENGINEERS

Applicants should have a sound knowledge of quantities, the preparation of overall programmes, detailed method statements and have had site experience. Appointment is permanent with participation in the superannuation scheme after trial period.

Applicants should apply in writing, stating age, education, training and experience in detail, and salary required, to: E.L.P., **Howard Farrow Ltd., Highfield Road, Golders Green Road, London, N.W.11.**

## ESTIMATORS

**JUNIOR ESTIMATOR** Required for Building Contractor, North East London. Some experience required and ability to measure own quantities. Permanent position and excellent opportunity.——Write, in own handwriting, stating age and experience, to Box 5456, "The Builder."

**ESTIMATOR SURVEYOR** for contracts from small works to £100,000. Salary and bonus; car provided. Age 30-40 preferred.—Reply, stating age, experience and salary required, to COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, S.E.5.

**ESTIMATOR** Required by Heal's cabinet factory, experienced in contract and hand-made quality furniture, architectural and decorative joinery. Varied and interesting work with excellent prospects for keen and energetic young man.—Apply Staff Manager, HEAL & SON, Ltd., 196, Tottenham Court-road, W.1.

**HEATING and PLUMBING ESTIMATOR and SUPERVISOR** for solid fuel, oil and gas.—E. HARRIS (BUILDER) Ltd., 87 Paines-lane, Pinner.

**ESTIMATOR** Required by London office (S.W.) of national Roofing company. Staff and widows' pension scheme, bonus, free lunch; 5-day week.—Write, age, experience and salary required, to Box 5516, "The Builder."

**ESTIMATOR/SURVEYOR** Required by South London subsidiary of well-known West End firm for small works jobbing. Must be experienced in all trades. Good prospects for keen, well-trained young man.—Apply with full details age, salary, experience, etc., to Box 5395, "The Builder."

## ESTIMATOR/SURVEYOR

Required by old-established Building Contractors, East Sussex. Capable of dealing with Contracts from enquiry to final account, with sound all-round experience. Write stating age and salary required.

**Box No. 5554, "The Builder"**

# Assistant Estimator

for the preparation of preliminary and firm estimates for commercial and industrial building work. Applicants should be capable of preparing and pricing abbreviated Bills of Quantities from noted drawings, measuring and agreeing Sub-Contractors' work and assessing the valuation of works in progress Preferably L.I.O.B. Salary within the range

**£800—£1,200**
**PLUS LONDON WEIGHTING.**

**5-DAY WEEK**
**3 WEEKS' HOLIDAY**
**PENSION SCHEME**

Apply in writing, with details of age, qualifications and experience to:—

**R. C. Steel, A.R.I.B.A.,**
**Chief Architect,**
**Co-Operative Wholesale Society Limited,**
**99, Leman Street, London, E.1.**

**BOVIS LIMITED**

**require**

**ESTIMATORS**

**in their branch offices in north-west London.**

This is a good opportunity for keen young men as the business is expanding and there will be good opportunities for promotion. The position carries a good salary and is pensionable. A staff canteen is available.

**Please write for interview to Ref. MC, 1 Stanhope Gate, London W.1.**

---

**PAINTING CONTRACTORS**

REQUIRE

**ESTIMATOR**

Large and well-established Painting Contractors in North West London Area require experienced and energetic Estimator used to industrial work and who has the desire and ability to progress. Age 25/40 preferred. Excellent salary according to experience, plus twice annual bonus on results. Company car supplied and personal use allowed. Present holiday arrangements will be honoured. Applications, which should give full details of past experience, will be treated in strict confidence.
Replies to:

Box No. 5560, "The Builder"

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**THE LONDON FERRO-CONCRETE CO. LTD.**

require a

**SENIOR ESTIMATOR**

experienced in tendering for building and civil engineering work.
Pension Scheme.

Housing—Details at interview.

Apply giving full details, age, experience, and salary required, to—

**Chief Estimator,**
**The London Ferro-Concrete Co. Ltd.,**
**Maxted Close, Hemel Hempstead, Herts.**
**Telephone: Boxmoor 3810**

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MSC

ROOFING, CLADDING & STRUCTURAL INSULATION

This expanding national company of specialist sub-contractors offers the following opportunities to energetic men with an eye to the future
LONDON OFFICE

**ESTIMATOR**

Experienced in taking-off from drawings, preparing bills of quantities and tendering.

**CONTRACTS SUPERVISOR**

To take complete control of contracts from initial ordering and organizing of labour to final settlement.

PERMANENT POSITIONS — PENSION SCHEME — SALARY ACCORDING TO ABILITY AND EXPERIENCE

WRITE TO Director, M.S.C., Cavendish House, Cavendish Road, London, S.W.12.

ALL APPLICATIONS WILL BE ACKNOWLEDGED.

---

**ESTIMATOR/ SURVEYOR**

required by London Specialists in adaptation, conversion and decoration.

Attractive salary. Participation in pension scheme after period of satisfactory service. Car provided, or car allowance. Existing holiday arrangements honoured. Reply, stating age and experience to

**Box No. 5368, "The Builder"**

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**COSTAIN**

# Senior Building Estimator

**LONDON**

The person appointed to this position will control the work of an existing staff of estimators and will be directly responsible to the General Manager for the preparation of all London Area tenders.

Candidates must have had experience of estimating for all types of contracts and preferably have had experience of controlling staff. The ability to act as a member of the management team and contribute to the discussion of general managerial problems is also required.

*Please address applications to:*

**PERSONNEL MANAGER,**
**RICHARD COSTAIN LTD., 111 WESTMINSTER BRIDGE ROAD,**
**LONDON, S.E.1.**

---

**SENIOR ESTIMATOR**

required

Fully experienced in pricing all types and sizes of contracts.

Apply:

**Galbraith Bros. Ltd.,**
**Crayford Bridge,**
**Crayford, Kent**
(for attention Managing Director)

---

**WALL AND FLOOR TILING**

**ESTIMATOR/SURVEYOR**

required for London and Suburban Areas.

Age 25–35. Some previous experience essential.

Apply, in writing, stating age, experience and salary required, to:

**The Secretary,**
**Pratt (Watford) Ltd.,**
*Head Office,*
**Woodford Road, Watford, Herts.**

**DRABBLE CONSTRUCTION LTD.**

*require an*

# ESTIMATOR

experienced in tendering for building and civil engineering work up to £250,000. Superannuation scheme in operation. Apply, full details, age, experience, salary required to:

*Managing Director,*
**Drabble Construction Ltd.,**
**1 Cannon Street, Wellingborough, Northants.**
Tel. W'boro' 3441.

## ARE YOU A SMALL COG IN A LARGE ORGANISATION?

**PROPERTY COMPANY** seeks executive Staff in its Building Division, with experience of negotiating and supervision of Building Contracts up to £250,000 each, both commercial and residential developments. Salary in accordance with experience. Please write giving full details of career to date to :

**Box No. 5543 "The Builder"**

**OPUS LTD.**

require

## CONTRACTS MANAGERS

**for Midlands and South**

Capable of handling up to six Medium-size Contracts, approx. £50,000 each, in above areas.
Surveyor trained preferable but good site administrators essential.
Must be cost conscious.
Salary commensurate with experience.
Superannuation scheme.
Car provided.

*Apply in full detail.*
**20, Telford Ave., London, S.W.2.**

## MANAGERS

**BUILDING CONTRACTORS,** offices Brighton, Require fully experienced CONTRACTS MANAGER, housing and flat contracts.—Apply, giving full particulars of past experience, Box 962, "The Builder."

**CONTRACTS MANAGER. ASSISTANT** Required E.11 area. Good prospects for man with drive and initiative in expanding firm.—Full particulars of previous experience, salary required, etc., to Box 4978, "The Builder."

**GENERAL MANAGER** Required for the Plant company of a rapidly-expanding development and contracting group. Duties will consist of re-organisation and expansion of plant department for Construction company, also development of plant hire business. Only men with proven record of success in similar positions need apply. Excellent salary and conditions, including non-contributory pension scheme. All applications will be dealt with in confidence by Managing Director personally.—Apply, giving full details of experience and qualifications, to Box 5465, "The Builder."

**TECHNICAL ASSISTANT Required for Construction Manager, to be responsible for General Assistance in Contract Supervision, Co-ordination of details and drawings for Sub-Contractors and Suppliers and Phasing Deliveries of Materials. This is a new post within a progressive organisation calling for practical experience in all forms of building construction.—Apply in writing to E. S. GATES, Ltd., Chalfont Station-road, Amersham, Bucks.**

**A BUILDING INSPECTOR** is Required by the National House-Builders Registration Council to inspect houses in the Lancashire area. Candidates should have had experience in practical building construction, including supervision, and preference will be given to those holding a recognised diploma. Commencing salary not less than £700 per annum with provision for annual increments. There are also opportunities for promotion. Applications stating past and present employment, age, qualifications, etc. (marked "Building Inspector"), should be sent within 14 days of this advertisement to: Chief Technical Officer, N.H.B.R.C., 58 Portland-place, London, W.1.

**MANAGER** Required for medium-sized Builders on South Coast. Good salary, bonus scheme, pension and life assurance. Assistance with accommodation if required.—Apply: in strict confidence, giving full particulars of past experience, salary expected, when available, etc., to Box 5525, "The Builder."

**MANAGER** Required for New Depot, Sutton, Surrey area, with house available in few weeks' time. Essential to have knowledge of both light and heavy sides of trade and capable of conducting the business without supervision. This situation calls for a thoroughly experienced and honest man and will command a salary accordingly.—Apply, in writing, with full details, to Box 5545, "The Builder."

**OUTSIDE CONTRACTS MANAGER** Required to control Building Contracts throughout the country—directly responsible to the Manager of the Company.—Please reply, in confidence, stating qualifications, experience and salary required, to The Manager, BRIXABUR BUILDERS Ltd., Russell Chambers, 2 Whitfield-street, Gloucester.

# DECORATOR MANAGER

A first-class opportunity for an ambitious and energetic craftsman decorator with administrative ability to build up a sub-contracting organisation in which we would have a profit-sharing interest. The organisation will be backed by an established contracting company in S.W. London. A good starting salary will be paid and a car provided. Applicant must be capable of estimating. Write, stating age, experience and salary required to:

**" Managing Director "**

**Box No. 5586, " The Builder "**

**JOHN LAING AND SON LIMITED**

offer interesting and progressive careers to

## Men holding

O.N.C., H.N.C., or H.N.D. (Building) or who are of equivalent standard.
Applicants who are interested in the increasingly important field of

## PRODUCTION CONTROL

will find opportunities for development and promotion in Departments dealing with Progressing, Site Measurements, Method Study, Labour and Material Control and Analysis.
Encouragement given for study, Superannuation Scheme.

*Applications stating age to:—*
**Group Personnel Manager (P.C.6), John Laing and Son Limited, London, N.W.7.**

COSTAIN

# Building Contracts Manager

## NOTTINGHAM

The man appointed to this position will be required to live in Nottingham. He will take over control of existing contracts in this area and initiate work which will be starting in the future. The present Contracts Manager is returning to London.

This post calls for an energetic yet mature approach to the management of a group of contracts exceeding £2m in value. Full details of the duties and conditions of employment will be supplied to candidates who have had experience of successfully controlling a group of contracts of comparable importance.

*Please address letters to*
**THE PERSONNEL MANAGER · RICHARD COSTAIN LIMITED**
111 Westminster Bridge Rd., London, S.E.1.

# SITE MANAGERS

## (OR TOP CLASS GENERAL FOREMEN)

required. Fully experienced, capable of taking responsibility and achieving economic completion to programme on one large contract or group of smaller contracts. Salary according to age and experience—£900 to £1,400 plus bonus based on results.

Working Foremen required. To take charge of smaller contracts. Excellent opportunity for younger man to gain experience. Regular work for suitable men. No lodging away.

Please send full particulars to experience and age, in confidence, to

**HARRY WIMPENNY & SONS LTD.,**
**Prestwich, Manchester**

# ASSISTANTS

## REQUIRED FOR CONTRACTS DEPARTMENT

Due to expansion, vacancies exist for three young men to train as future Contract Managers. The Company, whose offices are located in the West London area, are manufacturers and suppliers of Precision Motion Picture apparatus, stage equipment, soft furnishings, etc.

Successful applicants will be required to deal with architects, educational authorities and other professional bodies, in all aspects concerning the provision of equipment for cinemas, theatres, lecture halls, etc.

Main requirements are a technical background, administrative ability and a good personality.

Attractive commencing salary, excellent prospects. Pension scheme, canteen and welfare facilities. Please apply, giving full details of age, experience and present salary, to:

**Personnel Officer, Box No. 5529, "The Builder**

# PERSONAL ASSISTANT

required by Managing Director of **Fitzpatrick & Nicholson Limited,** 455 Old Ford Road, London, E.3. Telephone Advance 2991.

Unlimited opportunities for ambitious and able young man 20–30 in this recently formed Building Division of Fitzpatrick & Son (Contractors) Limited. Salary according to ability.

# CONTRACTS MANAGER

## REQUIRED BY WELL KNOWN ESTATE DEVELOPERS IN LONDON & HOME COUNTIES

Applicants must have extensive experience of controlling contracts and sub-contractors for Houses, Flats, Maisonettes, etc.

**TOP SALARY — CAR PROVIDED**

**PERMANENT & PENSIONABLE APPOINTMENT**

*Write in full detail to:*
**M.D., Box 5445 "The Builder"**

**ASSISTANT TO MANAGER.** An excellent opportunity is offered to a young man by a firm of Builders and Decorators in the West End of London. A knowledge of estimating and preparing accounts for alterations, decorations and jobbing work is required.—Write stating age, experience and salary required, to Box 905, "The Builder."

**JOINERY WORKS MANAGER,** about 35/45, able to run profitably a trade shop employing 50. Must have plenty of initiative and drive. S.W. London. £1,500. Pension. Holiday this year.—Write, Box 5583, "The Builder."

**MANAGER** Required for Shopfitters. Man capable of handling new contracts and refits. Should be able to Take-off material requirements from drawings for forward ordering. Pleasant working conditions. Superannuation scheme in operation. Salary according to age and experience.—Box 5591, "The Builder."

## BUILDER'S MANAGER

Age 30/55 required by Manchester Building Contractors to organise Building Contracts £20,000 to £250,000.

**Salary £1,500/£1,750 plus Bonus**

Transport provided. Assistance with housing if required. Age and full particulars in confidence to:

**Box No. 5488, "The Builder"**

## GENERAL MANAGER

required for a medium-size firm of Building Contractors on the South Coast.

Applicant, who should be in the 35/50 age group, would be responsible to the Managing Director for all aspects of the business, which covers contracts, minor works, joinery, etc.

An adequate second line of executives is available.

The position carries a reasonable salary, car, etc., and assistance with housing could be given if necessary.

Write, in confidence, stating age, education, experience, and salary required, to:

**The Advisory Service for the Building Industry,**
**82, New Cavendish Street,**
**London, W.1**

## CLERKS OF WORKS

**ASSISTANT CLERK OF WORKS** Required for erection of Factory Buildings at Stevenage for a period of about 12 months. Successful candidate will be required to take a medical examination and comply with conditions of engagement laid down by the Stevenage Development Corporation.—Reply in writing giving age, salary and previous experience, to FARMER AND DARK, F/F.R.I.B.A., Romney House, Tufton-street, Westminster, S.W.1.

**CLERK OF WORKS,** experienced in multi-storey reinforced concrete and general building work. Required for the erection of flatlets and hostel at Hemel Hempstead, at an approximate value of £300,000.—Apply, in writing, to GOLLINS, MELVIN, WARD & PARTNERS, 15 Manchester-square, London, W.1, stating age, qualifications, present post and salary, previous contracts engaged upon and names and addresses of two referees. Salary by arrangement.

**CLERK OF WORKS** Required immediately for fitting-up contract of interior of large office building in Victoria-street, S.W.1. The work includes many special requirements, with installation of air conditioning and all services.—Please write to DENYS LASDUN & PARTNERS, 3 Albany-terrace, N.W.1, or telephone VICtoria 5193.

## BUYERS

**BUYING ASSISTANT** Required aged 18/20. Experience of B.O.Q.'s essential and of Buying or Quantity Surveying preferable. Excellent opportunity.—Apply by letter to Chief Buyer, HOWARD FARROW, Ltd., Highfield-road, Golders Green-road, N.W.11.

**ESTATE DEVELOPERS** in Buckinghamshire Require an ASSISTANT in the Pre-Planning/Buying Department. He should have a good knowledge of taking-off materials schedules, inviting and recording quotations, and preferably experience in buying procedure. With this basic knowledge he should be adaptable and be prepared to work in a team dealing with the pre-planning of future work and recording and controlling materials, etc., on to current sites. This position offers interest and advancement and an opportunity to enlarge his experience in this and other fields.—Apply, Box 5496, "The Builder."

**BUYER** Required by THE UNIT CONSTRUCTION COMPANY, Central Way, Faggs-road, Feltham, Middlesex, with not less than five years' experience as buyer with Building and Civil Engineering Contractors. Excellent conditions, including five-day week, medical and pension scheme.—Apply, in writing, to the Regional Manager.

**BUYER'S ASSISTANT** Required by North London Building Contractors, able to Take-off quantities for ordering purposes.—Write, or 'phone for interview, A. F. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

**BUYER** Required for medium-sized contractors in the Shropshire area. Must be capable of taking-off own quantities from drawings and specifications. Details of experience and salary required, to Box 5535, "The Builder."

## EXPERIENCED BUYER

required for Contractors office. Surveyor trained preferred. Full details, including salary required, to:

**Box No. 5561, "The Builder"**

## ASSISTANT REQUIRED

for

Buying Office of firm of National Contractors with Head Office in the Westminster area. Good prospects and pay. Pension Fund, etc. Write in first instance to:

**Box No. 5476, "The Builder"**

## REPRESENTATIVES

**JUNIOR REPRESENTATIVE** at our Sidcup branch. Experience heavy side Merchants' trade necessary. Car provided. Good salary and bright future for right man. Holiday booking honoured. Telephone for appointment.—HENRY J. GREENHAM (1929) Ltd. Shepherds Bush 1250.

**REPRESENTATIVE and ESTIMATOR** Required for slating and tiling Contractors in North London.—Telephone: STAmford Hill 2788.

**PUMP MANUFACTURER** wishes to appoint SALES ENGINEER for Midlands and Southern Counties to specialise in sales of electro-submersible drainage pumps. Proven ability to sell and first-class connections throughout the area are essential.—Apply in writing to Box 5568, "The Builder."

## SALES REPRESENTATIVE

wanted for important London Territory to expand the sale of Building Chemicals and Flooring Aggregates. Applicants must be capable of selling at a high level within the Building Industry. Good salary and commission, potential earnings £2,000 p.a. in 2–3 years.

Write in confidence to:

**Box No. 5570 "The Builder"**

## AUSTINS OF EAST HAM LTD.
## Assistant Representatives

Many young men who have gained experience in the Building Trade and who possess initiative and drive feel that their ambitions can only be satisfied by making selling their career.

An appointment for Surrey is now offered to such young men, age 23–26, to join the sales organisation of Austins of East Ham, selling Standard Wood Windows, Doors and Kitchen Units.

After initial training at Head Office suitable candidates will be given outside experience.

Apply to Sales Director,
**2, Abbots Road, East Ham, London, E.6.**
giving details of education and career.

**REPRESENTATIVES.** A leading Manchester company manufacturing products for the Building Industry has vacancies for representatives in the main centres of England. Applications are invited from men aged between 25 and 40 years who are mobile and have a knowledge of the Building Industry. A car will be provided and conditions of service are excellent.—Apply, giving full details of career and present salary, to the Chief Personnel Manager, Box 5548, "The Builder."

**MARKET RESEARCH.** A large Company in Manchester manufacturing material for the Building Industry has a vacancy in its Market Research Department for a SENIOR ASSISTANT. Applications are invited from men who have building and sales experience with knowledge and interest in Market Research. The commencing salary will be attractive and conditions of service are good.—Apply, giving full details of career and present salary to the Chief Personnel Manager, Box 5547, "The Builder."

## BUILDERS' ASSISTANTS

**ASSISTANT TO MANAGER** of expanding Development Company Required, Surveyor trained. Age under 30 years. Apply stating age, experience, qualifications and present salary. Salary according to experience and ability. Superannuation scheme in operation.—Apply in writing to: M. J. JEANES (DEVELOPMENTS), Ltd., 62 Oak End Way, Gerrards Cross, Bucks.

**TAYLOR WOODROW CONSTRUCTION LIMITED**

require a

## SENIOR ASSISTANT

in the

**SUB-CONTRACT ORDERING DEPARTMENT**

at the

HEAD OFFICE, SOUTHALL, MIDDX.

This department is responsible for securing quotations and placing orders for sub-contract work and candidates should have a sound background knowledge of the Building Industry. Interviews can be arranged at any time, including early evenings and Saturday mornings, with travelling expenses paid.

**Write, giving brief details of personal history, to the**

**Personnel Manager,**
**345 Ruislip Road, Southall,**
**Middlesex**

**CO-OPERATIVE INSURANCE SOCIETY LTD.**

require first-class

## SENIOR CLERK OF WORKS

for 12 to 15 months for two internal finishings contracts exceeding one million pounds each for new offices now being erected under one main contract in MANCHESTER.

£1,500—£2,000 will be paid to a fully qualified and experienced man accustomed to high-class work, and deputy Clerk of Works will be appointed to assist him.

Send full details, age and salary required, to:

**G. S. HAY, F.R.I.B.A., CHIEF ARCHITECT,**
**CO-OPERATIVE WHOLESALE SOCIETY LTD.,**
**1, BALLOON STREET, MANCHESTER, 4.**

## AGENTS

**AGENT/GENERAL FOREMAN** Required. First-class opportunities for young man with initiative and drive. Opportunities of housing accommodation and top salary to right man.—Apply CLARK BROS., Stratton-road, Swindon, Wilts. Telephone: Swindon 3417.

**FIRST-CLASS AGENT** Required with wide experience in Reinforced Concrete and Civil Engineering work. Top salary for the right man.—Write, stating age, experience, salary required, with copies of references, to Building Contracts Manager, H. C. JANES, Ltd., 183 High Town-road, Luton.

**WANTED:** AGENTS for Duromit Industrial Floor Tiles, all districts.—MACNAB PAVING Ltd., Grove-road, Hitchin, Herts.

**SITE AGENT** Required to supervise large private housing scheme in Dorset coastal resort on behalf of a Development Company.—Write, stating age, salary required, details of previous experience and professional qualifications, if any; duration of contract eighteen months minimum, Box 5517, "The Builder."

**SITE AGENT** or GENERAL FOREMAN Required for industrial development in South Wales. Thorough knowledge of building construction needed and ability to take full charge of all trades. Good salary and bonus.—Byfleet 45661.

**SENIOR AGENT** Required. Must have extensive experience in sewage disposal works. This is a permanent position with opportunities for advancement. Assistance with housing if required.—Apply: WM. EAVES & CO., Ltd., Vicarage-lane, Blackpool.

**AGENT** (top-class) Required for work in London. Good salary, pension scheme, time and profit bonus and other privileges.—Write, giving details of experience and work executed during last six years, to THOMAS LOWE & SONS, Ltd., Broadway Chambers, W.6.

**McMANUS & CO LTD.**

require

**AGENTS/GENERAL FOREMEN**

for large private development schemes and housing estates in the Home Counties. The positions offered are progressive and carry a good salary. Write with full particulars to the Chief Surveyor,

**McMANUS & CO. LTD.,**
**Orchard House,**
**Orchard Parade,**
**Potters Bar, Middx.**

**AGENT/GENERAL FOREMEN** Required for factory contracts in Guildford and North London. Salary and bonus.—Apply to COURTNEY & FAIRBAIRN Ltd., 377 Albany-road, S.E.5.

**DRABBLE CONSTRUCTION LTD.**

**require**

# AGENTS

FOR housing, factory and school contracts in South Midlands area. Must be capable of taking complete charge of contracts. Superannuation scheme in operation.

Write, giving details to:

**Managing Director,**
**Drabble Construction Limited,**
**1 Cannon Street, Wellingborough,**
**Northants**

Tel: W'boro' 3441

**COSTAIN**

## BUILDING AGENTS AND GENERAL FOREMEN

These appointments will be with our Area organizations based on London, Middlesbrough, Leeds, Newcastle, Coventry, Bristol and Plymouth; they will offer continued employment in these areas.

Candidates must have had experience in complete control of contracts, including industrial or multi-storey construction.

Evening or week-end interviews can be arranged if necessary either in London or at the towns mentioned above.

*Please write in the first instance to -*

**Personnel Manager, Richard Costain Ltd.,**
**111 Westminster Bridge Rd., London, S.E.1.**

**Y. J. LOVELL (London) LTD.,**

**require an**

## AGENT/GENERAL FOREMAN

For a large contract in Central London.

Applicants must have had recent experience in Precast Concrete Construction.

Apply:

**General Manager,**
**Y. J. Lovell (London) Ltd.,**
**Thorne House,**
**Endsleigh Gardens, London, W.C.1**

**Kyle Stewart (Contractors) Ltd.,**

**require**

# AGENTS & GENERAL FOREMEN

in London and Home Counties, for contracts between £100,000 and £500,000 in value. Must be experienced in all aspects of the trade, possess drive, initiative and up-to-date knowledge of mechanical plant management. Preferably C. and J. Participation in Company's bonus and pension scheme. Car allowance. First-class salary offered to successful applicants.

Apply in writing, stating experience and present salary, to :

**Managing Director,**
**Kyle Stewart (Contractors) Ltd.,**
**Ardshiel House, Empire Way, Wembley,**
**Middlesex.**

**A. J. WAIT & CO., LTD.**

**REQUIRE**

## AGENTS AND GENERAL FOREMAN

In London and Home Counties for Contracts between £100,000 and £250,000 in value, must be experienced in all aspects of the trade, possess drive and initiative.

Participation in Company's bonus and pension scheme. First-class salary to successful applicants.

Apply in writing or telephone for an appointment to :—

**Contracts Manager,**
**FIVE STAR,**
**KINGSTON RD., NEW MALDEN.**
**TEL. MALDEN 0081.**

## FOREMEN AND SUPERVISORS

**GENERAL FOREMAN** Required for contracts, Greater London area. Good prospects for first-class men with drive and initiative.—Full particulars, including salary, etc., to Box 916, "The Builder."

**GENERAL FOREMAN** Required, housing contracts, Alton and Newbury.—Apply, giving full particulars, DRURY CONSTRUCTION, Ltd., 4 Farncombe-road, Worthing.

**FIRST-CLASS GENERAL FOREMAN** Required, capable of handling contracts between £50,000 and £150,000, mostly in the East London and S.W. Essex areas.—Apply giving full details, including salary required, to Mr. G. Marney, MESSRS. A. E. SYMES, Ltd., Albert House, 236 High-street, Stratford, E.15.

**SENIOR GENERAL FOREMEN** Required by National Contractor for contracts situated in London and South of England. Applicants must be experienced in reinforced concrete construction. Only keen and ambitious foremen capable of earning good annual bonus by results need apply. Good conditions and pension scheme operating.—Apply in writing, giving details of experience to date, to Box 5269, "The Builder."

**OUTSIDE SUPERVISOR** Required by old-established Midland Builders to organise and develop the outside organisation. Contracts cover major flat, school, hospital, factory and housing schemes. A tradesman background is required and the post is progressive and pensionable.—Apply, stating brief particulars of age, experience, to Box 5376, "The Builder."

**EXPERIENCED**, energetic, walking FOREMAN, to supervise small works for old-established London Building Contractors. Applicants must have had previous experience of this type of work, and should be capable of maintaining discipline and economical control of labour.—Apply, in confidence, to the Secretary, giving full details of experience, and when available, to Box 5387, "The Builder."

## WRAIGHT LTD.,

Member of the R. D. Hope, Gibson, Kimber Group of Builders,

**require at their works 23 LONDON ROAD, SITTINGBOURNE**
(Phone 2266/7/8)

## A BUILDING SUPERVISOR, BRICKLAYERS, CARPENTERS and JOINERS

for varied and interesting general building and contracting work. Excellent prospects to progress with this expanding group of companies.

## GENERAL FOREMAN

required for large contract for Birmingham Corporation. Bricklayer background preferred but not essential; must have drive, sound knowledge of planning, and be cost conscious.

Apply in writing, stating experience and salary required to:

**Alfred Langley Limited,**
**Site Office,**
**Barnes Hill Estate, California,**
**Birmingham, 29.**

**THOMAS LOWE & SONS LTD.**

have vacancies for

## GENERAL FOREMEN

to take charge of contracts in the Birmingham Area up to a value of £200,000. Must be experienced and conversant with modern methods including planning and progressing. Staff Pension Scheme available after satisfactory probationary period. Applications should be, in the first place, in writing to:

**Gazette Buildings,**
**Corporation Street, Birmingham 4,**

stage age, qualifications and salary required.

## THE LYON GROUP

REQUIRE

## AREA SUPERVISORS

capable of taking complete charge of a group of industrial, commercial and residential developments and contracts, including multi-storey structures in reinforced concrete. These positions will be well paid and offer great opportunities of advancement with an expanding Group for determined and capable men.

Apply:—

Managing Director,
Ronald Lyon Construction Limited,
Auckland House, New Zealand Avenue,
Walton-on-Thames, Surrey.

## LABOUR CONTROLLER

London Firm of Builders having a Labour force of 500 men seeks to fill a newly created position as Personnel Manager. We are trying to strengthen our efforts in the development of leaders and key personnel among our operatives.

A knowledge of building trade labour, conditions of employment, educational and training schemes and job assessment qualities of a high order are pre-requisites for the position.

Applicants should be aged 30-35. Commencing salary £1,000 p.a. The position entitles the successful applicant to participate in a non-contributory Pension Scheme. Please reply to

**Box No. 5386 "The Builder."**

Modular concrete

## STRUCTURAL FOREMEN

required by specialist contractors in Reinforced Concrete. Preferably Carpenter trained and with experience of modern construction methods and equipment. Excellent opportunities for men of action and ideas in expanding organisation engaged on a programme of interesting and varied work. There are also training vacancies for juniors in the above positions. Write in confidence stating age, experience and present salary to Personnel Manager,

**Modular Concrete Company Ltd.,**
**1260 London Road,**
**Norbury, S.W.16.**

## CONTRACT SUPERVISORS

required by

**LONDON BUILDING CONTRACTOR**

The company is a medium sized but expanding organisation, and offers excellent prospects and conditions of service to men of the right calibre. Applicants must be conversant with modern planning and construction methods. In addition they must be able to run several projects to strict and economic programmes. Good personality and ability to deal with consultants and site personnel is essential.

Full Details Please to:

**Box 5534 "The Builder"**

*IMMEDIATELY REQUIRED*

## GENERAL FOREMEN

J. M. HILL & SONS LTD.
LARGE LONDON CONTRACTS
ONLY FULLY EXPERIENCED MEN NEED APPLY.
STAFF POSITION.
PENSION SCHEME
APPLY IN CONFIDENCE
**SALARY £1,450**

**Heather Park Drive,**
**North Circular Road,**
**Wembley, Middx.**

## GENERAL FOREMEN

required for contracts in London, Sussex and Kent. Experienced in all types of contracts from £100,000 to £500,000. Salary £1,200 upwards according to experience. Pension scheme and assistance with housing after proving period.

**W. LLEWELLYN & SONS LTD.**
79 DAVIES ST., W.1.

---

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CUBITTS

# APPOINTMENTS

*— see pages 64 and 65*

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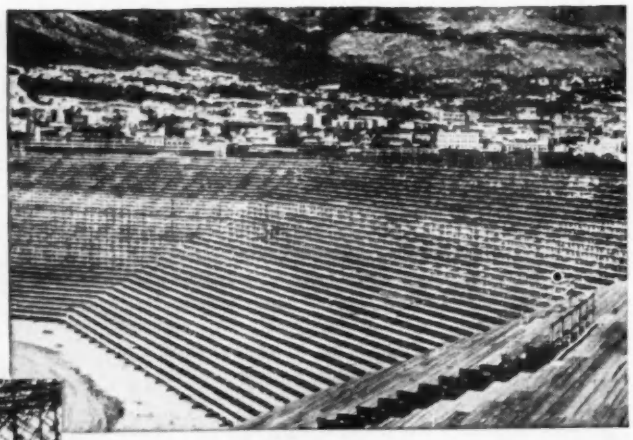

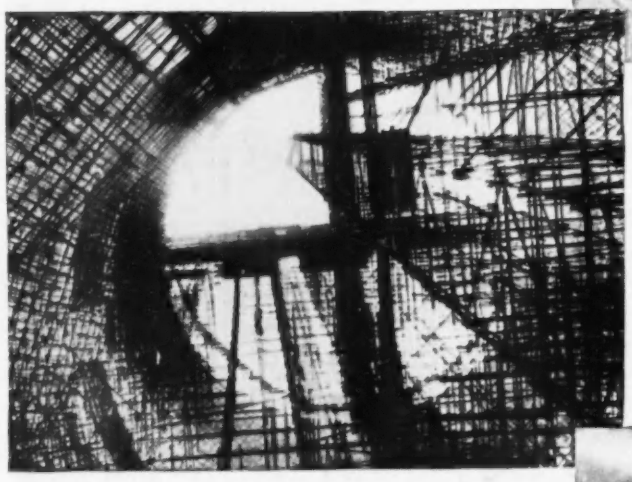

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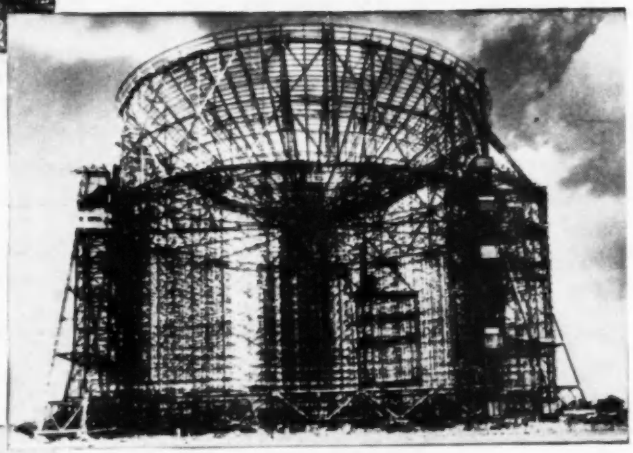

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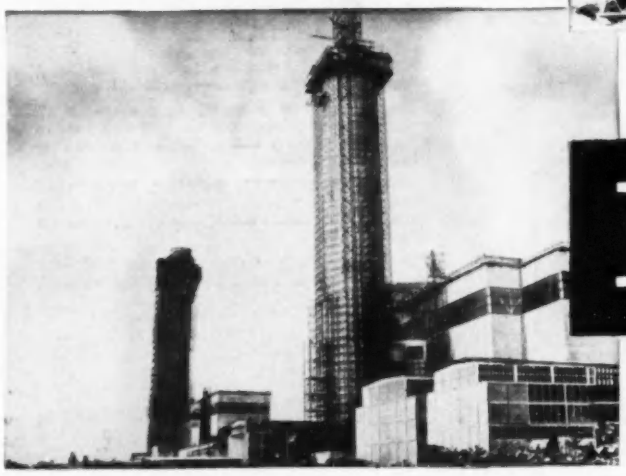

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Published by THE BUILDER LIMITED, at the Builder House, Catherine-st., Aldwych, London, W.C.2, England.
Printed by ST. CLEMENTS PRESS LTD., 112, Queen Victoria-st., E.C.4. May 19, 1961. REGISTERED AT THE GENERAL POST OFFICE AS A NEWSPAPER.